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ATS01N*****



ATS22*****



VW3G22101

Altistart 01

Type	Rated Current (A)	Power Rating (kW)	Reference	Price per unit
1.1 to 11 kW motor, 1-phase 110...230 V or 3-phase 200...480 V supply voltage, 50/60 Hz				
Control one phase of the motor power supply				
3		1.1	ATS01N103FT	
6		2.2	ATS01N106FT	
9		4.0	ATS01N109FT	
12		5.5	ATS01N112FT	
25		11.0	ATS01N125FT	
3.0 to 15 kW motor, 3-phase supply voltage: 380...415 V 50/60 Hz				
Control two phases of the motor power supply				
6		3.0	ATS01N206QN	
9		4.0	ATS01N209QN	
12		5.5	ATS01N212QN	
22		11.0	ATS01N222QN	
32		15.0	ATS01N232QN	

- Adjustable starting and deceleration times: 5 seconds or 10 seconds
- Adjustable unjamming torque and "Boost" function for difficult starting conditions
- Integrated bypass contactor
- Simple dialogue by 2 LEDs
- Signalling on completion of starting

Altistart 22

7.5 to 355kW motor, 230...440 V - 50/60 Hz, 220 V control power supply			
Control three phases of the motor power supply			
17	7.5	ATS22D17Q	
32	15	ATS22D32Q	
47	22	ATS22D47Q	
62	30	ATS22D62Q	
75	37	ATS22D75Q	
88	45	ATS22D88Q	
110	55	ATS22C11Q	
140	75	ATS22C14Q	
170	90	ATS22C17Q	
210	110	ATS22C21Q	
250	132	ATS22C25Q	
320	160	ATS22C32Q	
410	220	ATS22C41Q	
480	250	ATS22C48Q	

Accessories

Remote display terminals - IP 54	VW3G22101
Remote Cables RJ45 - 3M	VW3A1104R30

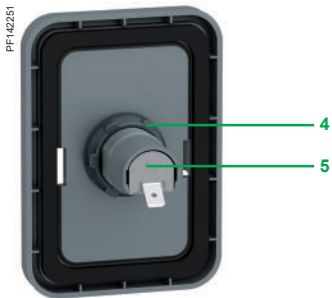
- Integrated bypass and safety functions
- Reduce your operating costs
- Simplified wiring
- Save space with a fully equipped product



ATS480 in-line, not bypassed										
Motor nameplate							ATS480			
Rated operational voltage (Ue) Rated motor power							Reference	Operational rated current (Ie)	Power dissipated at Ie	Weight
230 V	400 V	440 V	500 V	525 V	660 V	690 V				
kW	kW	kW	kW	kW	kW	kW		A	W	kg/lb
Normal duty applications										
4	7.5	7.5	9	9	11	15	ATS480D17Y	17	38	4.900/10.8
5.5	11	11	11	11	15	18.5	ATS480D22Y	22	54	4.900/10.8
7.5	15	15	18.5	18.5	22	22	ATS480D32Y	32	84	4.900/10.8
9	18.5	18.5	22	22	30	30	ATS480D38Y	38	96	4.900/10.8
11	22	22	30	30	37	37	ATS480D47Y	47	122	4.900/10.8
15	30	30	37	37	45	45	ATS480D62Y	62	181	8.300/18.2
18.5	37	37	45	45	55	55	ATS480D75Y	75	225	8.300/18.2
22	45	45	55	55	75	75	ATS480D88Y	88	270	8.300/18.2
30	55	55	75	75	90	90	ATS480C11Y	110	302	8.300/18.2
37	75	75	90	90	110	110	ATS480C14Y	140	366	12.4/27.3
45	90	90	110	110	132	160	ATS480C17Y	170	459	12.4/27.3
55	110	110	132	132	160	200	ATS480C21Y	210	560	18.2/40.1
75	132	132	160	160	220	250	ATS480C25Y	250	675	18.2/40.1
90	160	160	220	220	250	315	ATS480C32Y	320	882	18.2/40.1
110	220	220	250	250	355	400	ATS480C41Y	410	1319	51.4/113.3
132	250	250	315	315	400	500	ATS480C48Y	480	1366	51.4/113.3
160	315	355	400	400	560	560	ATS480C59Y	590	1711	51.4/113.3
–	355	400	–	–	630	630	ATS480C66Y	660	1938	51.4/113.3
220	400	500	500	500	710	710	ATS480C79Y	790	2517	115.0/253.5
250	500	630	630	630	900	900	ATS480M10Y	1000	2845	115.0/253.5
355	630	710	800	800	–	–	ATS480M12Y	1200	3472	115.0/253.5
Heavy duty applications										
3	5.5	5.5	7.5	7.5	9	11	ATS480D17Y	12	26	4.900/10.8
4	7.5	7.5	9	9	11	15	ATS480D22Y	17	39	4.900/10.8
5.5	11	11	11	11	15	18.5	ATS480D32Y	22	54	4.900/10.8
7.5	15	15	18.5	18.5	22	22	ATS480D38Y	32	79	4.900/10.8
9	18.5	18.5	22	22	30	30	ATS480D47Y	38	96	4.900/10.8
11	22	22	30	30	37	37	ATS480D62Y	47	133	8.300/18.2
15	30	30	37	37	45	45	ATS480D75Y	62	181	8.300/18.2
18.5	37	37	45	45	55	55	ATS480D88Y	75	225	8.300/18.2
22	45	45	55	55	75	75	ATS480C11Y	88	232	8.300/18.2
30	55	55	75	75	90	90	ATS480C14Y	110	286	12.4/27.3
37	75	75	90	90	110	110	ATS480C17Y	140	371	12.4/27.3
45	90	90	110	110	132	160	ATS480C21Y	170	448	18.2/40.1
55	110	110	132	132	160	200	ATS480C25Y	210	560	18.2/40.1
75	132	132	160	160	220	250	ATS480C32Y	250	675	18.2/40.1
90	160	160	220	220	250	315	ATS480C41Y	320	997	51.4/113.3
110	220	220	250	250	355	400	ATS480C48Y	410	1152	51.4/113.3
132	250	250	315	315	400	500	ATS480C59Y	480	1366	51.4/113.3
160	315	355	400	400	560	560	ATS480C66Y	590	1711	51.4/113.3
–	355	400	–	–	630	630	ATS480C79Y	660	2053	115.0/253.5
220	400	500	500	500	710	710	ATS480M10Y	790	2205	115.0/253.5
250	500	630	630	630	900	900	ATS480M12Y	1045	2845	115.0/253.5



Remote-mounting kit for mounting plain text display terminal on enclosure door (front panel)



Remote-mounting kit for mounting plain text display terminal on enclosure door (rear panel)

Mounting kit for plain text display terminal

■ Remote-mounting kit for mounting on an enclosure door with IP43 degree of protection as standard

Description

The kit includes:

- Tightening tool (also sold separately under the reference ZB5AZ905)
- 1 Mounting plate
- 2 RJ45 port for the plain text display terminal
- 3 Seal
- 4 Fixing nut
- 5 RJ45 port for connecting the remote-mounting cordset

Cordsets should be ordered separately depending on the length required. Drilling a hole with a standard Ø 22 tool, as used for a pushbutton, allows the unit to be mounted without the need for a cut-out in the enclosure (Ø 22.5 mm/Ø 0.89 in. drill hole).

An anti-rotation function is provided that works as follows: when the kit is locked tightly onto the panel by the nut, the gasket on the back cannot rotate.

References				
Description	Length m/ ft	IP degree of protection	Reference	Weight kg/ lb
Remote-mounting kit Order with remote-mounting cordset VW3A1104R●●●	–	43	VW3A11114	–
Tightening tool For remote-mounting kit	–	–	ZB5AZ905	0.016/ 0.035
Remote-mounting cordset Equipped with two RJ45 connectors	1/ 3.28	–	VW3A1104R10	0.050/ 0.110
	3/ 9.84	–	VW3A1104R30	0.150/ 0.331
	5/ 16.4	–	VW3A1104R50	0.250/ 0.551
	10/ 32.8	–	VW3A1104R100	0.500/ 1.102

Communication accessory

Description	Reference	Weight kg/ lb
Wi-Fi dongle Portable battery powered Wi-Fi access point for Wi-Fi equipment (PC, tablet, smartphone, etc.)	TCSEGWB131W	0.350/ 0.772

List of communication modules

Description	Reference
Modbus TCP, EtherNet/IP	VW3A3720
CANopen daisy chain	VW3A3608
CANopen SUB-D	VW3A3618
CANopen screw terminal block	VW3A3628
PROFINET	VW3A3647
PROFIBUS DP V1	VW3A3607



ATV12H*****

IP 20 drives (frequency range from 0.5 to 400 Hz)

Type	Rated Current (A)	Power Rating (kW)	Reference	Price per unit
1-phase supply voltage: 200...240 V 50/60 Hz, with integrated category C1 EMC filter (for 3phase Motors)				
	1.4	0.18	ATV12H018M2	
	2.4	0.37	ATV12H037M2	
	3.5	0.55	ATV12H055M2	
	4.2	0.75	ATV12H075M2	
	7.5	1.5	ATV12HU15M2	
	10	2.2	ATV12HU22M2	

IP 20 drives (frequency range from 0.5 to 400 Hz)

3-phase supply voltage: 200...240 V 50/60 Hz, with integrated category C1 EMC filter (for 3phase Motors)				
	1.4	0.18	ATV12H018M3	
	2.4	0.37	ATV12H037M3	
	4.2	0.75	ATV12H075M3	
	7.5	1.5	ATV12HU15M3	
	10	2.2	ATV12HU22M3	
	12.2	3	ATV12HU30M3	
	16.7	4	ATV12HU40M3	

- Can be configured in its packaging
- Quick start option requiring no adjustment
- Inbuilt EMC filter
- Local control on the front panel
- Resistant to harsh operating environments



ATV212H0***



VW3A5103



VW3A1101



VW3A21212

IP 21 drives (frequency range from 0.5 to 200 Hz)

Type	Rated Current (A)	Power Rating (kW)	Reference	Price per unit
3-phase supply voltage: 380...480 V 50/60 Hz, with integrated category C2 or C3 EMC filter				
	2.2	0.75	ATV212H075N4	
	3.7	1.5	ATV212HU15N4	
	5.1	2.2	ATV212HU22N4	
	7.2	3	ATV212HU30N4	
	9.1	4	ATV212HU40N4	
	12	5.5	ATV212HU55N4	
	16	7.5	ATV212HU75N4	
	22.5	11	ATV212HD11N4	
	30.5	15	ATV212HD15N4	
	37	18.5	ATV212HD18N4	
	43.5	22	ATV212HD22N4	
Slim version	43.5	22	ATV212HD22N4S	
	58.5	30	ATV212HD30N4	
	79	37	ATV212HD37N4	
	94	45	ATV212HD45N4	
	116	55	ATV212HD55N4	
	160	75	ATV212HD75N4	

Motor chokes

The motor choke enables operation with motor cables longer than the maximum standard permitted lengths.

3-phase supply voltage: 380...480 V 50/60 Hz

for ATV 212H075N4...HD11N4 (max.100m Cable)	90A	VW3A5103
for ATV 212HD15N4 (max.100m Cable)	215A	VW3A5104
for ATV 212HD18N4...HD75N4 (max.150m Cable)	215A	VW3A5104

Accessories (Common for ATV212, ATV312, ATV61, ATV71)

Remote Graphic Display Terminal (Supplied as standard with ATV61/71 drive)	VW3A1101
Remote Graphic Display Mounting Kit IP-54	VW3A1102
Remote Cables RJ45 - 3M	VW3A1104R30

Communication

LonWorks Communication Card	VW3A3312
• Schneider Electric signature antiharmonic technology (THDI ~ 30%). • Dual Communication ports • Integrated Modbus, METASYS N2®, APOGEE FLN P1® and BACnet®. Optional: LonWorks • Ambient Temperature up to 50°C • Full Text Display as option	



ATV320U02M2C...U07M2C



ATV320U11M2C...U22M2C
ATV320U04N4C...U15N4C



ATV320U22N4C...
ATV320U40N4C



ATV320U55M3C

Drives with compact control block										
Motor	Line supply			Altivar Machine ATV320						
Power indicated on rating plate (1)	Max. line current (2) (3)		Apparent power	Max. prospective line Isc (4)	Max. continuous output current (In) (1)	Max. transient current for 60s	Power dissipated at maximum output current (In) (1)	Reference (1)	Weight	
	at U1	at U2	at U2							
kW	HP	A	A	kVA	kA	A	A	W		kg/lb
Single-phase supply voltage: 200...240 V 50/60 Hz, with integrated EMC filter (6)										
0.18	0.25	3.4	2.8	0.7	1	1.5	2.3	17	ATV320U02M2C	0.800/1.278
0.37	0.5	5.9	4.9	1.2	1	3.3	5	30	ATV320U04M2C	1.000/2.204
0.55	0.75	7.8	6.6	1.6	1	3.7	5.6	33	ATV320U06M2C	1.100/2.425
0.75	1	10.0	8.4	2	1	4.8	7.2	45	ATV320U07M2C	
1.1	1.5	13.7	11.5	2.8	1	6.9	10.4	61	ATV320U11M2C	1.600/3.527
1.5	2	17.8	14.9	3.6	1	8	12	76	ATV320U15M2C	
2.2	3	24.0	20.2	4.8	1	11	16.5	99	ATV320U22M2C	
Three-phase supply voltage: 200...240 V 50/60 Hz, without integrated EMC filter										
0.18	0.25	2.0	1.7	0.7	5	1.5	2.3	15	ATV320U02M3C	0.800/1.278
0.37	0.5	3.6	3.0	1.2	5	3.3	5	27	ATV320U04M3C	0.900/1.984
0.55	0.75	4.9	4.2	1.7	5	3.7	5.6	31	ATV320U06M3C	1.000/2.204
0.75	1.0	6.3	5.3	2.2	5	4.8	7.2	42	ATV320U07M3C	
1.1	1.5	8.6	7.2	3.0	5	6.9	10.4	58	ATV320U11M3C	1.400/3.086
1.5	2.0	11.1	9.3	3.9	5	8	12	72	ATV320U15M3C	
2.2	3.0	14.9	12.5	5.2	5	11	16.5	91	ATV320U22M3C	
3.0	3.0	18.7	15.7	6.5	5	13.7	20.6	105	ATV320U30M3C	2.200/4.850
4.0	5.0	23.8	19.9	8.3	5	17.5	26.3	140	ATV320U40M3C	
5.5	7.5	35.4	29.8	12.4	22	27.5	41.3	242	ATV320U55M3C	3.500/7.716
7.5	10.0	45.3	38.2	15.9	22	33	49.5	293	ATV320U75M3C	3.600/7.937
11.0	15.0	60.9	51.4	21.4	22	54	81	468	ATV320D11M3C	6.800/14.991
15.0	20.0	79.7	67.1	27.9	22	66	99	551	ATV320D15M3C	6.900/15.212

(1) These values are given for a nominal switching frequency of 4 kHz, for use in continuous operation. The switching frequency is adjustable from 2 to 16 kHz. Above 4 kHz, derate the nominal drive current. The nominal motor current should not exceed this value (see derating curves in the [Installation Manual](#)).

(2) Typical value for a 4-pole motor and a maximum switching frequency of 4 kHz, with no line choke for max.

(3) Nominal supply voltage, min. U1, max. U2: 200 (U1)...240 V (U2), 380 (U1)...500 V (U2), 525(U1)...600(U2).

(4) If line Isc is greater than the values in the table, add line chokes.



ATV320U07S6C



ATV320U15S6C



ATV320U55N4C

Drives with compact control block										
Motor		Line supply			Altivar Machine ATV320					
Power indicated on rating plate (1)		Max. line current (2) (3)		Apparent power	Max. prospective line Isc (4)	Max. continuous output current (In) (1)	Max. transient current for 60s	Power dissipated at maximum output current (In) (1)	Reference (1)	Weight
		at U1	at U2	at U2						
kW	HP	A	A	kVA	kA	A	A	W		kg/lb
Three-phase supply voltage: 380...500 V 50/60 Hz, with integrated EMC filter (5) (6)										
0.37	0.5	2.1	1.6	1.4	5	1.5	2.25	23	ATV320U04N4C	1.200/2.646
0.55	0.75	2.8	2.2	1.9	5	1.9	2.85	27	ATV320U06N4C	
0.75	1	3.6	2.8	2.4	5	2.3	3.45	32	ATV320U07N4C	
1.1	1.5	5	3.8	3.3	5	3	4.5	40	ATV320U11N4C	1.300/2.866
1.5	2	6.4	4.9	4.2	5	4.1	6.15	56	ATV320U15N4C	
2.2	3	8.7	6.6	5.7	5	5.5	8.25	74	ATV320U22N4C	2.100/4.630
3	3	11.1	8.4	7.3	5	7.1	10.65	93	ATV320U30N4C	
4	5	13.7	10.6	9.2	5	9.5	14.25	111	ATV320U40N4C	2.200/4.850
5.5	7.5	20.7	14.5	12.6	22	14.3	21.45	195	ATV320U55N4C	2.200/4.850
7.5	10.0	26.5	18.7	16.2	22	17.0	25.5	229	ATV320U75N4C	2.200/4.850
11.0	15.0	36.6	25.6	22.2	22	27.7	41.6	370	ATV320D11N4C	6.800/14.991
15.0	20.0	47.3	33.3	28.8	22	33.0	49.5	452	ATV320D15N4C	6.900/15.211
Three-phase supply voltage: 525...600 V 50/60 Hz, without integrated EMC filter (7)										
0.75	1	1.5	1.4	1.5	5	1.7	2.6	34	ATV320U07S6C	1.300/2.866
1.5	2	2.6	2.4	2.5	5	2.7	4.1	54	ATV320U15S6C	
2.2	3	3.7	3.2	3.4	5	3.9	5.9	77	ATV320U22S6C	2.000/4.409
4	5	6.5	5.8	6.0	5	6.1	9.2	96	ATV320U40S6C	2.500/5.511
5.5	7.5	8.4	7.5	7.8	22	9.0	13.5	148	ATV320U55S6C	3.500/7.716
7.5	10	11.6	10.5	10.9	22	11.0	16.5	175	ATV320U75S6C	
11	15	15.8	14.1	14.7	22	17.0	25.5	267	ATV320D11S6C	6.500/14.330
15	20	22.1	20.1	20.9	22	22.0	33.0	317	ATV320D15S6C	

(1) These values are given for a nominal switching frequency of 4 kHz, for use in continuous operation. The switching frequency is adjustable from 2 to 16 kHz. Above 4 kHz, derate the nominal drive current. The nominal motor current should not exceed this value (see derating curves in the [Installation Manual](#)).

(2) Typical value for a 4-pole motor and a maximum switching frequency of 4 kHz, with no line choke for max.

(3) Nominal supply voltage, min. U1, max. U2: 200 (U1)...240 V (U2), 380 (U1)...500 V (U2), 525 (U1)...600 (U2).

(4) If line Isc is greater than the values in the table, add line chokes.

(5) Drives supplied with category C2 integrated EMC filter. This filter can be disconnected.

(6) Drives are supplied with an EMC plate, for assembly by the customer.

(7) A line choke is mandatory with ATV320...S6C drives. To be ordered separately, see [page 40](#).



ATV320U02M2B...U07M2B
ATV320U04N4B...U15N4B



ATV320U11M2B...U22M2B
ATV320U22N4B...U40N4B



ATV320U55N4B



ATV320D15N4B

Drives with book control block										
Motor		Line supply			Altivar Machine ATV320					
Power indicated on rating plate (1)		Max. line current (2),(3)		Apparent power	Max. prospective line Isc (4)	Max. continuous output current (In) (1)	Max. transient current for 60s	Power dissipated at maximum output current (In) (1)	Reference (1)	Weight
		at U1	at U2	at U2						
kW	HP	A	A	kVA	kA	A	A	W		kg/lb
Single-phase supply voltage: 200...240 V 50/60 Hz, with integrated EMC filter (5) (6)										
0.18	0.25	3.4	2.8	0.7	1	1.5	2.3	19	ATV320U02M2B	2.400/5.291
0.37	0.5	6	5	1.2	1	3.3	5	31	ATV320U04M2B	2.500/5.511
0.55	0.75	7.9	6.7	1.6	1	3.7	5.6	35	ATV320U06M2B	
0.75	1	10.1	8.5	2	1	4.8	7.2	46	ATV320U07M2B	2.400/5.291
1.1	1.5	13.6	11.5	2.8	1	6.9	10.4	62	ATV320U11M2B	2.900/6.393
1.5	2	17.6	14.8	3.6	1	8	12	77	ATV320U15M2B	
2.2	3	23.9	20.1	4.8	1	11	16.5	98	ATV320U22M2B	
Three-phase supply voltage: 380...500 V 50/60 Hz, with integrated EMC filter (5) (6)										
0.37	0.5	2.1	1.6	1.4	5	1.5	2.3	23	ATV320U04N4B	2.500/5.511
0.55	0.75	2.8	2.2	1.9	5	1.9	2.9	27	ATV320U06N4B	2.600/5.732
0.75	1	3.6	2.7	2.3	5	2.3	3.5	31	ATV320U07N4B	
1.1	1.5	5	3.8	3.3	5	3	4.5	41	ATV320U11N4B	2.500/5.511
1.5	2	6.5	4.9	4.2	5	4.1	6.2	56	ATV320U15N4B	
2.2	3	8.7	6.6	5.7	5	5.5	8.3	74	ATV320U22N4B	3.000/6.614
3	3	11.1	8.4	7.3	5	7.1	10.7	93	ATV320U30N4B	
4	5	13.7	10.5	9.1	5	9.5	14.3	111	ATV320U40N4B	
5.5	7.5	20.7	14.5	12.6	22	14.3	21.45	195	ATV320U55N4B	7.500/16.534
7.5	10	26.5	18.7	16.2	22	17	25.5	229	ATV320U75N4B	
11	15	36.6	25.6	22.2	22	27.7	41.6	370	ATV320D11N4B	8.700/19.180
15	20	47.3	33.3	28.8	22	33	49.5	452	ATV320D15N4B	8.800/19.401

(1) These values are given for a nominal switching frequency of 4 kHz, for use in continuous operation. The switching frequency is adjustable from 2 to 16 kHz. Above 4 kHz, derate the nominal drive current. The nominal motor current should not exceed this value (see derating curves in the [Installation Manual](#)).

(2) Typical value for a 4-pole motor and a maximum switching frequency of 4 kHz, with no line choke for max. prospective line Isc (4).

(3) Nominal supply voltage, min. U1, max. U2: 200 (U1)...240 V (U2), 380 (U1)...500 V (U2), 525 (U1)...600 V (U2).

(4) If line Isc is greater than the values in the table, add line chokes.

(5) Drives supplied with category C2 integrated EMC filter. This filter can be disconnected.

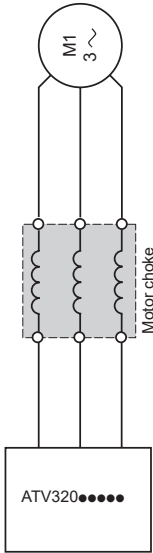
(6) Connection in compliance with EMC standards:
- ATV320...M2B, ATV320U04N4B...ATV320U40N4B drives are supplied with an EMC plate. This is integral part of the power terminal; these 2 components cannot be separated.
- ATV320U55N4B...D15N4B drives are supplied with an EMC plate, for assembly by the customer.



Option modules (1) (2)		
Description	Reference	Page
Communication option modules		
CANopen Daisy Chain 2 x RJ45 communication module	VW3A3608	48
CANopen SUB-D9 communication module	VW3A3618	48
CANopen open style communication module	VW3A3628	48
Ethernet TCP/IP communication module	VW3A3616	50
EtherCAT 2 x RJ45 communication module	VW3A3601	51
Profibus DP communication module	VW3A3607	51
DeviceNet communication module	VW3A3609	51
POWERLINK communication module	VW3A3619	51
Profinet communication module	VW3A3627	51
Other option modules		
Speed monitoring card - RS422 - 5V	VW3A3620	45

(1) To use with ATV320 drives with a compact control block, the option module adapter is required (to be ordered separately).

(2) Only one module can be connected at once.



Presentation						
Motor chokes						
Motor chokes, also known as load reactors, can be inserted between the Altivar Machine ATV320 drive and the motor to:						
■ Limit the dv/dt at the motor terminals (500 to 1500 V/μs), for cables longer than 50 m/164.04 ft						
■ Filter interference caused by the opening of a contactor placed between the filter and the motor						
■ Reduce the motor ground leakage current						
■ Smooth the motor current wave form to reduce motor noise						
References						
For drives	Losses	Cable length (1)		Nominal current	Reference	Weight
		Shielded cable	Unshielded cable			
	W	m/ft	m/ft	A		kg/lb
Single-phase supply voltage: 200...240 V 50/60 Hz						
ATV320U02M2●...U15M2●	65	≤ 100/328.08	≤ 200/656.17	10	VW3A4552	3.000/6.613
ATV320U22M2●	75	≤ 100/328.08	≤ 200/656.17	16	VW3A4553	3.500/7.716
Three-phase supply voltage: 200...240 V 50/60 Hz						
ATV320U02M3C...U15M3C	65	≤ 100/328.08	≤ 200/656.17	10	VW3A4552	3.000/6.613
ATV320U22M3C ATV320U30M3C	75	≤ 100/328.08	≤ 200/656.17	16	VW3A4553	3.500/7.716
ATV320U40M3C...U75M3C	90	≤ 100/328.08	≤ 200/656.17	30	VW3A4554	6.000/13.228
ATV320D11M3C...D15M3C	260	≤ 100/328.08	≤ 200/656.17	107	VW3A4556	16.000/35.274
Three-phase supply voltage: 380...500 V 50/60 Hz						
ATV320U04N4●...U40N4●	65	≤ 100/328.08	≤ 200/656.17	10	VW3A4552	3.000/6.613
ATV320U55N4●	75	≤ 100/328.08	≤ 200/656.17	16	VW3A4553	3.500/7.716
ATV320U75N4● ATV320D11N4●	90	≤ 100/328.08	≤ 200/656.17	30	VW3A4554	6.000/13.228
ATV320D15N4●	80	≤ 100/328.08	≤ 200/656.17	60	VW3A4555	11.000/24.251
Three-phase supply voltage: 525...600 V 50/60 Hz						
ATV320U07S6C ATV320U15S6C ATV320U22S6C ATV320U40S6C ATV320U55S6C	65	≤ 100/328.08	≤ 200/656.17	10	VW3A4552	3.000/6.613
ATV320U75S6C	75	≤ 100/328.08	≤ 200/656.17	16	VW3A4553	3.500/7.716
ATV320D11S6C ATV320D15S6C	75	≤ 100/328.08	≤ 200/656.17	16	VW3A4554	6.000/13.228

(1) For an application with several motors connected in parallel, the total motor cable lengths must be added together. If a cable longer than that recommended is used, the filters may overheat.



ATV340U22N4E



ATV340U75N4E



ATV340D22N4E



ATV340D37N4E

Variable speed drives - Ethernet version ⁽¹⁾										
Motor		AC supply				Altivar Machine				
Power indicated on rating plate ⁽²⁾		Input current ⁽³⁾		Apparent power 480 V	Prospective line Isc	Maximum continuous current ⁽²⁾	Maximum transient current for 2 s	Maximum transient current for 60 s	Reference ⁽¹⁾	Weight
		380 V	480 V							
HD:	Heavy duty ⁽⁵⁾									
ND:	Normal duty ⁽⁴⁾									
	kW	HP	A	A	kVA	kA	A	A	A	kg/lb
Three-phase supply voltage: 380...480 V 50/60 Hz										
HD	0.75	1	3.4	2.6	2.2	5	2.2	4	3.3	ATV340U07N4E 1.700/3.748
ND	1.1	1.5	2.6	2.1	1.7	5	2.8	3.8	3.1	
HD	1.5	2	6	4.9	4.1	5	4	7.2	6	ATV340U15N4E 1.700/3.748
ND	2.2	3	5.1	4.1	3.4	5	5.6	7.6	6.2	
HD	2.2	3	8.4	6.6	5.5	5	5.6	10.1	8.4	ATV340U22N4E 1.800/3.968
ND	3	3	6.6	5.3	4.4	5	7.2	9.7	7.9	
HD	3	3	10.7	8.5	7.1	5	7.2	13	10.8	ATV340U30N4E 2.100/4.630
ND	4	5	8.6	6.8	5.7	5	9.3	12.6	10.2	
HD	4	5	13.4	10.6	8.8	5	9.3	16.7	14	ATV340U40N4E 2.200/4.850
ND	5.5	7	11.4	9	7.5	5	12.7	17.1	14	
HD	5.5	7	20	16	13.3	22	12.7	22.9	19.1	ATV340U55N4E 2.900/6.393
ND	7.5	10	15.3	12.2	10.1	22	16.5	22.3	18.2	
HD	7.5	10	25.6	20.4	17	22	16.5	29.7	24.8	ATV340U75N4E 3.000/6.614
ND	11	15	22	17.7	14.7	22	24	32.4	26.4	
HD	11	15	34.7	27.7	23	22	24	43	36	ATV340D11N4E 9.500/20.944
ND	15	20	28.8	23	19.1	22	32	43	35.2	
HD	15	20	44.9	35.7	29.7	22	32	58	48	ATV340D15N4E 9.500/20.944
ND	18.5	25	37.4	30.2	25.1	22	39	53	42.9	
HD	18.5	25	54.7	43.4	36.1	22	39	70	59	ATV340D18N4E 10.200/22.487
ND	22	30	43.4	35	29.1	22	46	62	50.6	
HD	22	30	63.5	50.6	42.1	22	46	83	69	ATV340D22N4E 10.200/22.487
ND	30	40	60.1	48.6	40.4	22	62	84	68.2	
HD	30	40	54.8	48.3	40.2	50	61.5	92.25	92.25	ATV340D30N4E 27.900/61.509
ND	37	50	66.2	57.3	47.6	50	74.5	89.4	89.4	
HD	37	50	67.1	59	49.1	50	74.5	111.75	111.75	ATV340D37N4E 28.400/62.611
ND	45	60	79.8	69.1	57.4	50	88	105.6	105.6	
HD	45	60	81.4	71.8	59.7	50	88	132	132	ATV340D45N4E 56.400/124.341
ND	55	75	97.2	84.2	70	50	106	127.2	127.2	
HD	55	75	98.9	86.9	72.2	50	106	159	159	ATV340D55N4E 57.900/127.648
ND	75	100	131.3	112.7	93.7	50	145	174	174	
HD	75	100	134.3	118.1	98.2	50	145	217.5	217.5	ATV340D75N4E 58.400/128.750
ND	90	125	156.2	135.8	112.9	50	173	207.6	207.6	

(1) Altivar Machine ATV340U07...D22N4E drives integrate a category C3 EMC filter with 20 m/66 ft shielded motor cable.
ATV340D30...D37N4E drives integrate a category C2 EMC filter with 50 m/164 ft motor cable and category C3 EMC filter with 150 m/492 ft motor cable.
ATV340D45...D75N4E drives integrate a category C3 EMC filter with 150 m/492 ft shielded motor cable.

(2) These values are given for a nominal switching frequency of 4 kHz up to **ATV340D37N4E** (2.5 kHz for **ATV340D45N4E**...**ATV340D75N4E**), for use in continuous operation. The switching frequency is adjustable. Above 2.5 or 4 kHz (depending on the rating), the drive will automatically reduce the switching frequency in the event of an excessive temperature rise. For continuous operation above the nominal switching frequency, derate the nominal drive current (see derating curves in [ATV340 Installation manual](#)).

(3) Typical value for the indicated motor power and for the prospective line Isc.

(4) For ATV340U07...D22N4E values given for applications requiring slight overload (up to 135% for 2 s and 110% for 60 s).
For ATV340D30...D75N4E values given for applications requiring slight overload (up to 110% for 60 s).

(5) For ATV340U07...D22N4E values given for applications requiring significant overload (up to 180% for 2 s and 150% for 60 s).
For ATV340D30...D75N4E values given for applications requiring significant overload (up to 150% for 60 s).

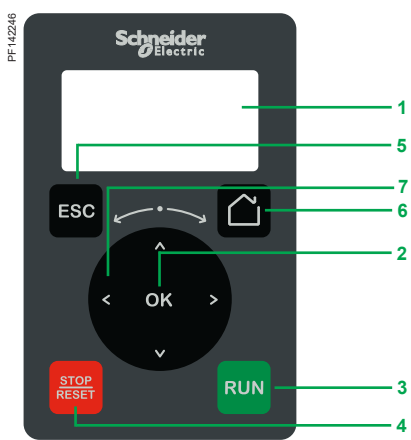
Note: Drives are shown with optional plain text display, which can be ordered separately as an add-on. Consult the summary tables of possible drive, option, and accessory combinations (see [page 32](#)).

Ambient temperature range:

- For normal duty operation mode:
 - ATV340U07...D22N4E -15...40 °C/5...104 °F without derating (up to 60 °C/140 °F with derating)
 - ATV340D30...D75N4E -15...50 °C/5...122 °F without derating (up to 60 °C/140 °F with derating)
- For heavy duty operation mode:
 - ATV340U07...D22N4E -15...50 °C/5...122 °F without derating (up to 60 °C/140 °F with derating)
 - ATV340D30...D75N4E -15...50 °C/5...122 °F without derating (up to 60 °C/140 °F with derating)

For more details regarding the thermal capacity of references, please visit [our website](#).

- Transportation and storage temperature range for ATV340U07...D75N4E -40...70 °C/-40...158 °F in dry and dust-free environment.



Plain text display terminal

Plain text display terminal

The plain text display terminal can be ordered separately, and can be:

- Connected and mounted on the front of the drive
- Connected and mounted on an enclosure door using a remote-mounting accessory

This terminal is used to:

- Control, adjust, and configure the drive
- Display current values (motor, I/O, and machine data)
- Store and download configurations (several configuration files can be stored in the memory)
- Duplicate the configuration of one powered-up drive on another powered-up drive

Other features:

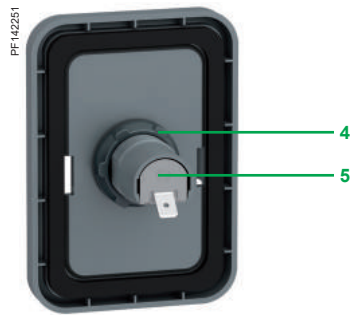
- Displaying the device - via Web server and password; a display terminal is required to log in to the Web server for the first time
- Realtime clock providing data acquisition and event time-stamping functions
- 2 lines
- Languages (Chinese, English, French, German, Italian, Spanish)
- White backlit LCD screen
- Operating range: -15...50 °C/+5...122 °F
- IP21 protection
- Removable, easy plug-in with RJ45 port

Description		
The front of the display terminal comprises:		
1	LCD backlight screen	
2	OK button: saves the current value (ENT)	
3	RUN button: local control of motor run command	
4	STOP/RESET button: local control of motor stop command/clearing detected errors	
5	ESC button: aborts a value, parameter, or menu to return to the previous selection	
6	Home: root menu	
7	Turn ±: navigation dial, increases or decreases the value, goes to the next or previous line	

References		
Description	Reference	Weight kg/lb
Plain text display terminal	VW3A1113	0.200/0.441



Remote-mounting kit for mounting plain text display terminal on enclosure door (front panel)



Remote-mounting kit for mounting plain text display terminal on enclosure door (rear panel)



VW3A3720

List of fieldbus modules	
Description	Reference
CANopen delay chain	VW3A3508
CANopen SUB-D	VW3A3518
CANopen open style communication module	VW3A3528
PROFINET	VW3A3527
PROFIBUS DP V1	VW3A3507
DeviceNet	VW3A3500
POWERLINK communication module	VW3A3510
EtherCAT 2 x RJ45 communication module	VW3A3501
Additional module support	VW3A3500

Mounting kit for plain text display terminal

- Remote-mounting kit for mounting on an enclosure door with IP43 degree of protection as standard

Description

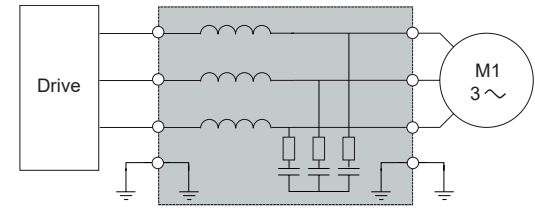
The kit comprises:
- Tightening tool (also sold separately under the reference ZB5AZ905)

- 1 Mounting plate
- 2 RJ45 port for the plain text display terminal
- 3 Seal
- 4 Fixing nut
- 5 RJ45 port for connecting the remote-mounting cordset

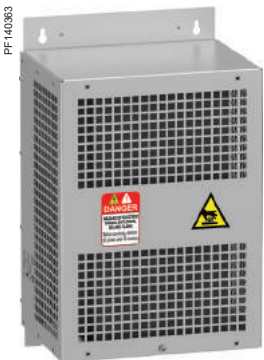
Cordsets should be ordered separately depending on the length required.
Drilling a hole with a standard Ø 22 tool, as used for a pushbutton, allows the unit to be mounted without the need for a cut-out in the enclosure (Ø 22.5 mm/Ø 0.89 in. drill hole).

An anti-rotation function is provided that works as follows: when the kit is locked tightly onto the panel by the nut, the gasket on the back cannot rotate.

References				
Description	Length m/ ft	IP degree of protection	Reference	Weight kg/ lb
Remote-mounting kit Order with remote-mounting cordset VW3A1104R●●●	—	43	VW3A1114	—
Tightening tool for remote-mounting kit	—	—	ZB5AZ905	0.016/ 0.035
Remote-mounting cordset equipped with 2 RJ45 connectors	1/ 3.28	—	VW3A1104R10	0.050/ 0.110
	3/ 9.84	—	VW3A1104R30	0.150/ 0.331
	5/ 16.4	—	VW3A1104R50	0.250/ 0.551
	10/ 32.8	—	VW3A1104R100	0.500/ 1.102



Altivar machine drive with dv/dt filter



VW3A5301

Presentation

ATV340 drives with a supply voltage of 380...480 V operate with the following maximum motor cable lengths: 100 m/328 ft for unshielded/shielded cables.
ATV340 drives rated more than 4 kW, with a supply voltage of 380...480 V operate with the following maximum motor cable lengths: 150 m/492 ft for shielded cables, 300 m/984 ft for unshielded cables.

To limit the impact of dv/dt and overvoltages in the motor, it is recommended that an output filter is added for cables longer than 50 m/164 ft if the motor insulation type does not conform to IEC 60034-25.

For further information, please consult the White Paper entitled “An Improved Approach for Connecting VSD and Electric Motors”.

Output filters are used to limit dv/dt at the motor terminals to 500 V/μs maximum for supply voltages up to 480 V.

Output filters are designed to limit overvoltages at the motor terminals to less than:

- 800 V with a shielded cable 0 to 50 m (0 to 164 ft) long, with a 400 V supply voltage
- 1,000 V with a shielded cable 50 to 150 m (164 to 492 ft) long, with a 400 V supply voltage
- 1,500 V with a shielded cable 150 to 300 m (492 to 984 ft) long, with a 400 V supply voltage (up to 500 m (1,640 ft) with an unshielded cable)

The performance of dv/dt filters will be affected if the maximum cable lengths are exceeded. For an application with several motors connected in parallel, the cable length must include all cabling. If a cable longer than that specified is used, the dv/dt filters may overheat.

The switching frequency must be under 8 kHz.

dv/dt output filters						
For drives	Maximum length of motor cable (1)		Degree of protection	In switching (3)	Reference	Weight
	Maximum switching frequency (2)	Unshielded	Shielded			
	kHz	m/ft	m/ft	IP	A	kg/lb
Three-phase supply voltage: 380...480 V						
ATV340U07...U15N4●	4	300/984	300/984	20	6	VW3A5301 11.000/24.251
ATV340U22...U40N4●	4	300/984	300/984	20	15	VW3A5302 12.000/26.455
ATV340U55...U75N4●	4	500/1640	300/984	20	25	VW3A5303 12.000/26.455
ATV340D11...D18N4●	4	500/1640	300/984	20	50	VW3A5304 18.000/39.683
ATV340D22N4●	4	500/1640	300/984	20	95	VW3A5305 19.000/41.888
ATV340D30...D37N4E						
ATV340D45...D75N4E	4	500/1640	300/984	00	180	VW3A5306 22.000/48.502

(1) Values given depend on the nominal switching frequency of the drive. This frequency depends on the drive rating. These cable lengths are given as examples only as they can vary depending on the application. They correspond to motors conforming to IEC 60034-25 and NEMA MG1/31.2006.

(2) The filters are designed to operate in a switching frequency range of between 2 and 8 kHz.

(3) Nominal filter current.



ATV630D15N4



ATV630D30N4

380...480 V (-15...10%) IP21/UL Type 1 drives										
Motor		Line supply				Altivar Process				
		Line current (2)		Apparent power	Maximum prospective line Isc	Max. continuous current (1)	Max. transient current for 60 s	Reference (5)	Weight	
Power indicated on rating plate (1)		380 V	480 V	380 V						
ND: Normal duty (3)										
HD: Heavy duty (4)										
kW	HP	A	A	kVA	kA	A	A		kg/	lb
With category C2 integrated EMC filter										
ND	0.75	1	1.5	1.3	1.1	50	2.2	2.4	ATV630U07N4	4.500/9.921
HD	0.37	0.5	0.9	0.8	0.7	50	1.5	2.3		
ND	1.5	2	3	2.6	2.2	50	4	4.4	ATV630U15N4	4.500/9.921
HD	0.75	1	1.7	1.5	1.2	50	2.2	3.3		
ND	2.2	3	4.3	3.8	3.2	50	5.6	6.2	ATV630U22N4	4.500/9.921
HD	1.5	2	3.1	2.9	2.4	50	4	6		
ND	3	—	5.8	5.1	4.2	50	7.2	7.9	ATV630U30N4	4.600/10.141
HD	2.2	3	4.5	4	3.3	50	5.6	8.4		
ND	4	5	7.6	6.7	5.6	50	9.3	10.2	ATV630U40N4	4.600/10.141
HD	3	—	6	5.4	4.5	50	7.2	10.8		
ND	5.5	7.5	10.4	9.1	7.6	50	12.7	14	ATV630U55N4	4.700/10.362
HD	4	5	8	7.2	6.0	50	9.3	14		
ND	7.5	10	13.8	11.9	9.9	50	16.5	18.2	ATV630U75N4	7.700/16.976
HD	5.5	7.5	10.5	9.2	7.6	50	12.7	19.1		
ND	11	15	19.8	17	14.1	50	23.5	25.9	ATV630D11N4	7.700/16.976
HD	7.5	10	14.1	12.5	10.4	50	16.5	24.8		
ND	15	20	27	23.3	19.4	50	31.7	34.9	ATV630D15N4	13.600/29.983
HD	11	15	20.6	18.1	15.0	50	23.5	35.3		
ND	18.5	25	33.4	28.9	24	50	39.2	43.1	ATV630D18N4	14.200/31.306
HD	15	20	27.7	24.4	20.3	50	31.7	47.6		
ND	22	30	39.6	34.4	28.6	50	46.3	50.9	ATV630D22N4	14.300/31.526
HD	18.5	25	34.1	29.9	24.9	50	39.2	58.8		
ND	30	40	53.3	45.9	38.2	50	61.5	67.7	ATV630D30N4	28.000/61.729
HD	22	30	40.5	35.8	29.8	50	46.3	69.5		
ND	37	50	66.2	57.3	47.6	50	74.5	82	ATV630D37N4	28.200/62.170
HD	30	40	54.8	48.3	40.2	50	61.5	92.3		
ND	45	60	79.8	69.1	57.4	50	88	96.8	ATV630D45N4	28.700/63.273
HD	37	50	67.1	59.0	49.1	50	74.5	111.8		

(1) These values are given for use in continuous operation with a nominal switching frequency of 4 kHz (ATV630U07N4...D45N4). The switching frequency is adjustable from 2...12 kHz (ATV630U07N4...D45N4). Above the nominal switching frequency, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise. For continuous operation above the nominal switching frequency, nominal drive current should be derated according to the derating curves in the [Installation Manual](#).

(2) Typical value for the indicated motor power and for the maximum prospective line Isc.

(3) Values given for applications requiring a slight overload (up to 110%).

(4) Values given for applications requiring a significant overload (up to 150%).

(5) For ATV630●●●N4Z cabinet integration products, see pages 3/6 and 3/7 in the cabinet integration section.

Note: Consult the summary tables of possible drive, option, and accessory combinations (see [page 2/18](#)).



ATV630D55N4



ATV630C25N4

380...480 V (-15...10%) IP21/UL Type 1 drives										
Motor		Line supply				Altivar Process				
		Line current (2)		Apparent power	Maximum prospective line Isc	Max. continuous current (1)	Max. transient current for 60 s	Reference (5)	Weight	
Power indicated on rating plate (1)		380 V	480 V	380 V						
ND: Normal duty (3)										
HD: Heavy duty (4)										
kW	HP	A	A	kVA	kA	A	A		kg/	lb
With category C3 integrated EMC filter										
ND	55	75	97.2	84.2	70	50	106	116.6	ATV630D55N4	56.500/124.561
HD	45	60	81.4	71.8	59.7	50	88	132		
ND	75	100	131.3	112.7	93.7	50	145	159.5	ATV630D75N4	58.000/127.868
HD	55	75	98.9	86.9	72.2	50	106	159		
ND	90	125	156.2	135.8	112.9	50	173	190.3	ATV630D90N4	58.500/128.970
HD	75	100	134.3	118.1	98.2	50	145	217.5		
ND	110	150	201	165	121.8	50	211	232.1	ATV630C11N4 (6)	82.000/180.779
HD	90	125	170	143	102.6	50	173	259.5		
ND	132	200	237	213	161.4	50	250	275	ATV630C13N4 (6)	82.000/180.779
HD	110	150	201	165	121.8	50	211	317		
ND	160	250	284	262	201.3	50	302	332.2	ATV630C16N4 (6)	82.000/180.779
HD	132	200	237	213	161.4	50	250	375		
ND	220	350	397	324	247	50	427	470	ATV630C22N4 (6)	163.000/359.353
HD	160	250	296	246	187	50	302	453		
ND	250	400	451	366	279	50	481	529	ATV630C25N4 (6)	207.000/456.357
HD	220	300	365	301	229	50	387	581		
ND	315	500	569	461	351	50	616	678	ATV630C31N4 (6)	207.000/456.357
HD	250	400	457	375	286	50	481	722		

(1) These values are given for use in continuous operation with a nominal switching frequency of 2.5 kHz (ATV630D55N4...C31N4). The switching frequency is adjustable from 2...8 kHz (ATV630D55N4...C31N4). Above the nominal switching frequency, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise. For continuous operation above the nominal switching frequency, nominal drive current should be derated according to the derating curves in the [Installation Manual](#).

(2) Typical value for the indicated motor power and for the maximum prospective line Isc.

(3) Values given for applications requiring a slight overload (up to 110%).

(4) Values given for applications requiring a significant overload (up to 150%).

(5) For ATV630●●●N4Z cabinet integration products, see pages 3/6 and 3/7 in the cabinet integration section.

(6) Product supplied as IP00 for mounting in an enclosure. For IP21/UL Type1 wall mounting, an adaptation kit should be ordered separately (see [page 2/13](#)).

Note: Consult the summary tables of possible drive, option, and accessory combinations (see [page 2/18](#)).



ATV650D15N4



ATV650D30N4



ATV650D55N4

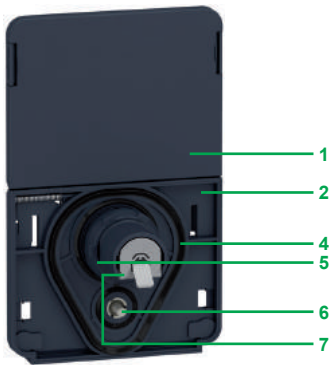
380...480 V (-15...10%) IP55 drives with category C2 or C3 integrated EMC filter ⁽¹⁾											
Motor			Line supply				Altivar Process				
Power indicated on rating plate ⁽²⁾			Line current ⁽³⁾		Apparent power	Maximum prospective line Isc	Maximum continuous current ⁽²⁾	Max. transient current for 60 s	Reference ⁽⁶⁾	Weight	
			380 V	480 V	380 V						
ND:	Normal duty ⁽⁴⁾										
HD:	Heavy duty ⁽⁵⁾										
	kW	HP	A	A	kVA	kA	A	A		kg/ lb	
THDi ≤ 44% at 100% load in Normal duty ⁽⁴⁾											
ND	0.75	1	1.5	1.3	1.1	50	2.2	2.4	ATV650U07N4	10.500/23.149	
HD	0.37	0.5	0.9	0.8	0.7	50	1.5	2.3			
ND	1.5	2	3	2.6	2.2	50	4	4.4	ATV650U15N4	10.500/23.149	
HD	0.75	1	1.7	1.5	1.2	50	2.2	3.3			
ND	2.2	3	4.3	3.8	3.2	50	5.6	6.2	ATV650U22N4	10.500/23.149	
HD	1.5	2	3.1	2.9	2.4	50	4	6			
ND	3	—	5.8	5.1	4.2	50	7.2	7.9	ATV650U30N4	10.600/23.369	
HD	2.2	3	4.5	4	3.3	50	5.6	8.4			
ND	4	5	7.6	6.7	5.6	50	9.3	10.2	ATV650U40N4	10.600/23.369	
HD	3	—	6	5.4	4.5	50	7.2	10.8			
ND	5.5	7.5	10.4	9.1	7.6	50	12.7	14	ATV650U55N4	10.700/23.589	
HD	4	5	8	7.2	6.0	50	9.3	14			
ND	7.5	10	13.8	11.9	9.9	50	16.5	18.2	ATV650U75N4	13.700/30.203	
HD	5.5	7.5	10.5	9.2	7.6	50	12.7	19.1			
ND	11	15	19.8	17	14.1	50	23.5	25.9	ATV650D11N4	13.700/30.203	
HD	7.5	10	14.1	12.5	10.4	50	16.5	24.8			
ND	15	20	27	23.3	19.4	50	31.7	34.9	ATV650D15N4	19.600/43.211	
HD	11	15	20.6	18.1	15	50	23.5	35.3			
ND	18.5	25	33.4	28.9	24	50	39.2	43.1	ATV650D18N4	20.600/45.415	
HD	15	20	27.7	24.4	20.3	50	31.7	47.6			
ND	22	30	39.6	34.4	28.6	50	46.3	50.9	ATV650D22N4	20.600/45.415	
HD	18.5	25	34.1	29.9	24.9	50	39.2	58.8			
ND	30	40	53.3	45.9	38.2	50	61.5	67.7	ATV650D30N4	50.000/110.231	
HD	22	30	40.5	35.8	29.8	50	46.3	69.5			
ND	37	50	66.2	57.3	47.6	50	74.5	82	ATV650D37N4	50.000/110.231	
HD	30	40	54.8	48.3	40.2	50	61.5	92.3			
ND	45	60	79.8	69.1	57.4	50	88	96.8	ATV650D45N4	50.000/110.231	
HD	37	50	67.1	59	49.1	50	74.5	111.8			
ND	55	75	97.2	84.2	70	50	106	116.6	ATV650D55N4	87.000/191.802	
HD	45	60	81.4	71.8	59.7	50	88	132			
ND	75	100	131.3	112.7	93.7	50	145	159.5	ATV650D75N4	87.000/191.802	
HD	55	75	98.9	86.9	72.2	50	106	159			
ND	90	125	156.2	135.8	112.9	50	173	190.3	ATV650D90N4	87.000/191.802	
HD	75	100	134.3	118.1	98.2	50	145	217.5			

(1) Category C2 EMC filter for **ATV650U07N4...D45N4**. Category C3 EMC filter above **ATV650D45N4**.
 (2) These values are given for a nominal switching frequency of 4 kHz adjustable from 2...12 kHz up to **ATV650D45N4** or 2.5 kHz adjustable from 2...8 kHz for **ATV650D55N4...D90N4**, for use in continuous operation.
 Above 2.5 or 4 kHz (depending on the rating), the drive will automatically reduce the switching frequency in the event of an excessive temperature rise. For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the [Installation Manual](#)).
 (3) Typical value for the indicated motor power and for the maximum prospective line Isc.
 (4) Values given for applications requiring a slight overload (up to 110%).
 (5) Values given for applications requiring a significant overload (up to 150%).
 (6) Supplied with cable gland.

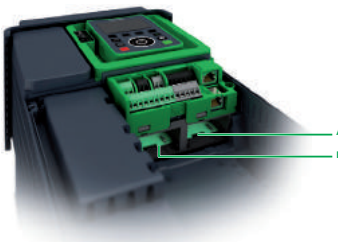
Note: Consult the summary tables of possible drive, option, and accessory combinations (see [page 2/20](#)).



Remote mounting kit for mounting graphic display terminal on enclosure door (front panel)



Remote mounting kit for graphic display terminal (rear panel)



Accessories for graphic display terminal

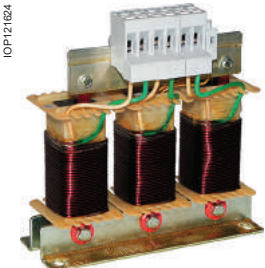
- Remote mounting kit for mounting on enclosure door with IP65/UL Type 12 protection rating as standard
- The kit comprises:
 - Tightening tool (also sold separately under the reference ZB5AZ905)
 - Cover plate to maintain IP65 protection when there is no terminal connected
 - Mounting plate
 - RJ45 port for the graphic display terminal
 - Seal
 - Fixing nut
 - Anti-rotation pin
 - RJ45 port for connecting the remote-mounting cordset (10 m/33 ft maximum); Cordsets should be ordered separately depending on the length required.
 - Grounding connector

Drilling a hole with a standard Ø 22 tool, as used for a pushbutton, allows the unit to be mounted without needing a cut-out in the enclosure (Ø 22.5 mm/Ø 0.89 in. drill hole).

References				
Description	Length m/ft	IP rating	Reference	Weight kg/lb
Remote mounting kit Order with remote-mounting cordset VW3A1104R●●●	—	65/UL Type 12	VW3A1112	—
Tightening tool for remote mounting kit	—	—	ZB5AZ905	0.016/0.035
Remote-mounting cordset equipped with 2 RJ45 connectors	1/3.28	—	VW3A1104R10	0.050/0.110
	3/9.84	—	VW3A1104R30	0.150/0.331
	5/16.40	—	VW3A1104R50	0.250/0.551
	10/32.81	—	VW3A1104R100	0.500/1.102
	—	—	TCSXCNAMUM3P	—
USB/Mini B USB cable for connecting the display terminal to a PC	—	—	—	—
IP65 remote mounting kit for Ethernet port ⁽¹⁾ Ø 22 RJ45 female/female adapter with seal	—	65	VW3A1115	0.018/0.040
Set of 10 x IP55 shutters: To maintain IP55 protection when the graphic display terminal is removed ⁽²⁾	—	55	VW3A1116	0.640/1.411

Communication modules		
Description	Reference	Slot
EtherNet/IP and Modbus TCP dual port	VW3A3720	A
EtherNet/IP, Modbus TCP, and MD-Link dual port	VW3A3721	A
CANopen daisy chain	VW3A3608	A
CANopen SUB-D	VW3A3618	A
CANopen screw terminal block	VW3A3628	A
PROFINET	VW3A3627	A
PROFIBUS DP V1	VW3A3607	A
POWERLINK Network	VW3A3619	A
DeviceNet	VW3A3609	A
BACnet MS/TP	VW3A3725	A

(1) These references can only be used once per drive, e.g. VW3A3203 in slot A and VW3A3204 in slot B.



VW3A5104

dv/dt output filters						
Corresponding drive	Maximum length of motor cable		Degree of protection	In (3)	Reference (4)	Weight
	Maximum switching frequency (1)	Shielded cable (2)				
	kHz	m/ft	IP	A		kg/lb
Three-phase supply voltage: 380...480 V						
ATV630U07N4...U22N4 ATV650U07N4...U22N4 ATV650U07N4E...U22N4E	4	300/ 984	20	6	VW3A5301	11.000/ 24.251
ATV630U30N4...U55N4 ATV650U30N4...U55N4 ATV650U30N4E...U55N4E	4	300/ 984	20	15	VW3A5302	12.000/ 26.455
ATV630U75N4...D11N4 ATV650U75N4...D11N4 ATV650U75N4E...D11N4E	4	300/ 984	20	25	VW3A5303	12.000/ 26.455
ATV630D15N4...D22N4 ATV650D15N4...D22N4 ATV650D15N4E...D22N4E	4	300/ 984	20	50	VW3A5304	18.000/ 39.683
ATV630D30N4...D45N4 ATV650D30N4...D45N4 ATV650D30N4E...D45N4E	4	300/ 984	20	95	VW3A5305	19.000/ 41.888
ATV630D55N4...D90N4 ATV650D55N4...D90N4 ATV650D55N4E...D90N4E	2.5	300/ 984	00	180	VW3A5306	22.000/ 48.502
ATV630C11N4...C16N4	2.5	300/ 984	00	305	VW3A5307	40.000/ 88.185
ATV630C22N4	2.5	250/ 820	00	481	VW3A5106	58.000/ 127.868
ATV630C25N4...C31N4	2.5	200/ 656	00	759	VW3A5107	93.000/ 205.230



ATV930D15N4



ATV930D30N4



ATV930D55N4

380...480 V (-15...10%) IP21/UL Type 1 drives - Wall mounting with braking unit										
Motor			Line supply				Altivar Process			
Power indicated on rating plate (1)			Line current (2)		Apparent power 480 V	Prospective line Isc	Maximum continuous current (1)	Maximum transient current for 60 s	Reference (3)	Weight
			380 V	480 V						
ND:	Normal duty (4)									
HD:	Heavy duty (5)									
	kW	HP	A	A	kVA	kA	A	A		kg/lb
With category C2 or C3 integrated EMC filter (6)										
ND	0.75	1	1.5	1.3	1.1	50	2.2	2.6	ATV930U07N4	4.500/ 9.921
HD	0.37	0.5	0.9	0.8	0.7	50	1.5	2.3		
ND	1.5	2	3	2.6	2.2	50	4	4.8	ATV930U15N4	4.500/ 9.921
HD	0.75	1	1.7	1.5	1.2	50	2.2	3.3		
ND	2.2	3	4.3	3.8	3.2	50	5.6	6.7	ATV930U22N4	4.500/ 9.921
HD	1.5	2	3.1	2.9	2.4	50	4	6		
ND	3	—	5.8	5.1	4.2	50	7.2	8.6	ATV930U30N4	4.600/ 10.141
HD	2.2	3	4.5	4	3.3	50	5.6	8.4		
ND	4	5	7.6	6.7	5.6	50	9.3	11.2	ATV930U40N4	4.600/ 10.141
HD	3	—	6	5.4	4.5	50	7.2	10.8		
ND	5.5	7.5	10.4	9.1	7.6	50	12.7	15.2	ATV930U55N4	4.700/ 10.362
HD	4	5	8	7.2	6.0	50	9.3	14		
ND	7.5	10	13.8	11.9	9.9	50	16.5	19.8	ATV930U75N4	7.700/ 16.976
HD	5.5	7.5	10.5	9.2	7.6	50	12.7	19.1		
ND	11	15	19.8	17	14.1	50	23.5	28.2	ATV930D11N4	7.700/ 16.976
HD	7.5	10	14.1	12.5	10.4	50	16.5	24.8		
ND	15	20	27	23.3	19.4	50	31.7	38	ATV930D15N4	13.600/ 29.983
HD	11	15	20.6	18.1	15.0	50	23.5	35.3		
ND	18.5	25	33.4	28.9	24	50	39.2	47	ATV930D18N4	14.200/ 31.306
HD	15	20	27.7	24.4	20.3	50	31.7	47.6		
ND	22	30	39.6	34.4	28.6	50	46.3	55.6	ATV930D22N4	14.300/ 31.526
HD	18.5	25	34.1	29.9	24.9	50	39.2	58.8		
ND	30	40	53.3	45.9	38.2	50	61.5	73.8	ATV930D30N4	28.000/ 61.729
HD	22	30	40.5	35.8	29.8	50	46.3	69.5		
ND	37	50	66.2	57.3	47.6	50	74.5	89.4	ATV930D37N4	28.200/ 62.170
HD	30	40	54.8	48.3	40.2	50	61.5	92.3		
ND	45	60	79.8	69.1	57.4	50	88	105.6	ATV930D45N4	28.700/ 63.273
HD	37	50	67.1	59.0	49.1	50	74.5	111.8		
ND	55	75	97.2	84.2	70	50	106	127.2	ATV930D55N4	57.500/ 126.766
HD	45	60	81.4	71.8	59.7	50	88	132		
ND	75	100	131.3	112.7	93.7	50	145	174	ATV930D75N4	59.000/ 125.663
HD	55	75	98.9	86.9	72.2	50	106	159		
ND	90	125	156.2	135.8	112.9	50	173	207.6	ATV930D90N4	59.500/ 131.174
HD	75	100	134.3	118.1	98.2	50	145	217.5		
ND	110	150	201	165	121.8	50	211	253	ATV930C11N4	104.000/ 229.000
HD	90	125	170	143	102.6	50	173	259.5	(7)	
ND	132	200	237	213	161.4	50	250	300	ATV930C13N4	104.000/ 229.000
HD	110	150	201	165	121.8	50	211	317	(7)	
ND	160	250	284	262	201.3	50	302	362	ATV930C16N4	104.000/ 229.000
HD	132	200	237	213	161.4	50	250	375	(7)	
ND	220	350	397	324	247	50	427	512	ATV930C22N4	172.000/ 379.195
HD	160	250	296	246	187	50	302	453	(8)	

(1) These values are given for an adjustable nominal switching frequency of 4 kHz for **ATV930U07N4...ATV930D45N4** drives or 2.5 kHz for **ATV930D55N4...C22N4** drives, for use in continuous operation. Above 2.5 or 4 kHz (depending on the rating), the drive will automatically reduce the switching frequency in the event of an excessive temperature rise. For continuous operation above the nominal switching frequency, derate the nominal drive current (see derating curves in the [Installation Manual](#)).

(2) Typical value for the indicated motor power and for the prospective line Isc.

(3) For **ATV930...N4Z** cabinet integration drives, see [pages 3/6 and 3/7](#) in the cabinet integration section.

(4) Values given for applications requiring a slight overload (up to 120%).

(5) Values given for applications requiring a significant overload (up to 150%).

(6) Category C2 EMC filter for **ATV930U07N4...D45N4** drives. Category C3 EMC filter above **ATV930D45N4**.

(7) Product supplied as IP20/UL Type 1 with braking unit for wall mounting and cabinet mounting.

(8) Product supplied as IP00 for mounting in an enclosure. For IP21/UL Type 1 wall mounting, a conformity kit should be ordered separately (see [page 2/13](#)).

Note: Consult the summary tables of possible drive, option, and accessory combinations (see [page 2/18](#)).



ATV930C11N4C



ATV930C25N4C

380...480 V (-15...10%) IP21/UL Type 1 drives - Wall mounting without braking unit										
Motor		Line supply				Altivar Process				
Power indicated on rating plate (1)		Line current (2)		Apparent power	Prospective line Isc	Maximum continuous current (1)	Maximum transient current for 60 s	Reference (3)	Weight	
		380 V	480 V	480 V						
ND:	Normal duty (4)									
HD:	Heavy duty (5)									
	kW	HP	A	A	kVA	kA	A	A	kg/lb	
With category C3 integrated EMC filter										
ND	55	75	97.2	84.2	70.0	50	106	127.2	ATV930D55N4C	56.500/124.561
HD	45	60	81.4	71.8	59.7	50	88	132		
ND	75	100	131.3	112.7	93.7	50	145	174.0	ATV930D75N4C	58.000/127.868
HD	55	75	98.9	86.9	72.2	50	106	159		
ND	90	125	156.2	135.8	112.9	50	173	207.6	ATV930D90N4C	58.500/128.970
HD	75	100	134.3	118.1	98.2	50	145	217.5		
ND	110	150	201	165	121.8	50	211	253	ATV930C11N4C (6)	82.000/180.779
HD	90	125	170	143	102.6	50	173	259.5		
ND	132	200	237	213	161.4	50	250	300	ATV930C13N4C (6)	82.000/180.779
HD	110	150	201	165	121.8	50	211	317		
ND	160	250	284	262	201.3	50	302	362	ATV930C16N4C (6)	82.000/180.779
HD	132	200	237	213	161.4	50	250	375		
ND	220	350	397	324	247	50	427	512	ATV930C22N4C (6)	172.000/319.195
HD	160	250	296	246	187	50	302	453		
ND	250	400	451	366	279	50	481	577	ATV930C25N4C (6)	203.000/447.538
HD	200	300	365	301	229	50	387	581		
ND	315	500	569	461	351	50	616	739	ATV930C31N4C (6)	203.000/447.538
HD	250	400	457	375	286	50	481	722		

(1) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation. The switching frequency is adjustable for all ratings. Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise. For continuous operation above the nominal switching frequency, derate the nominal drive current (see derating curves in the [Installation Manual](#)).

(2) Typical value for the indicated motor power and for the maximum prospective line Isc.

(3) For **ATV930...N4Z** cabinet integration drives, see [pages 3/6 and 3/7](#) in the cabinet integration section.

(4) Values given for applications requiring a slight overload (up to 120%).

(5) Values given for applications requiring a significant overload (up to 150%).

(6) Product supplied as IP00 for mounting in an enclosure. For IP21/UL Type 1 wall mounting, a conformity kit should be ordered separately (see [page 2/13](#)).

Note: Consult the summary tables of possible drive, option, and accessory combinations (see [page 2/18](#)).



ATV950D15N4



ATV950D30N4



ATV950D55N4

380...480 V (-15...10%) IP55 drives - Wall mounting with braking unit										
Motor			Line supply				Altivar Process			
Power indicated on rating plate (1)			Line current (2)		Apparent power 480 V	Prospective line Isc	Maximum continuous current (1)	Maximum transient current for 60 s	Reference (3)	Weight
			380 V	480 V						
ND:	Normal duty (4)									
HD:	Heavy duty (5)									
	kW	HP	A	A	kVA	kA	A	A		kg/lb
With category C2 or C3 integrated EMC filter (6)										
ND	0.75	1	1.5	1.3	1.1	50	2.2	2.6	ATV950U07N4	10.500/23.149
HD	0.37	0.5	0.9	0.8	0.7	50	1.5	2.3		
ND	1.5	2	3	2.6	2.2	50	4	4.8	ATV950U15N4	10.500/23.149
HD	0.75	1	1.7	1.5	1.2	50	2.2	3.3		
ND	2.2	3	4.3	3.8	3.2	50	5.6	6.7	ATV950U22N4	10.500/23.149
HD	1.5	2	3.1	2.9	2.4	50	4	6		
ND	3	—	5.8	5.1	4.2	50	7.2	8.6	ATV950U30N4	10.600/23.369
HD	2.2	3	4.5	4	3.3	50	5.6	8.4		
ND	4	5	7.6	6.7	5.6	50	9.3	11.2	ATV950U40N4	10.600/23.369
HD	3	—	6	5.4	4.5	50	7.2	10.8		
ND	5.5	7.5	10.4	9.1	7.6	50	12.7	15.2	ATV950U55N4	10.700/23.589
HD	4	5	8	7.2	6.0	50	9.3	14		
ND	7.5	10	13.8	11.9	9.9	50	16.5	19.8	ATV950U75N4	13.700/30.203
HD	5.5	7.5	10.5	9.2	7.6	50	12.7	19.1		
ND	11	15	19.8	17	14.1	50	23.5	28.2	ATV950D11N4	13.700/30.203
HD	7.5	10	14.1	12.5	10.4	50	16.5	24.8		
ND	15	20	27	23.3	19.4	50	31.7	38	ATV950D15N4	19.600/43.211
HD	11	15	20.6	18.1	15	50	23.5	35.3		
ND	18.5	25	33.4	28.9	24	50	39.2	47	ATV950D18N4	20.600/45.415
HD	15	20	27.7	24.4	20.3	50	31.7	47.6		
ND	22	30	39.6	34.4	28.6	50	46.3	55.6	ATV950D22N4	20.600/45.415
HD	18.5	25	34.1	29.9	24.9	50	39.2	58.8		
ND	30	40	53.3	45.9	38.2	50	61.5	73.8	ATV950D30N4	50.000/110.231
HD	22	30	40.5	35.8	29.8	50	46.3	69.5		
ND	37	50	66.2	57.3	47.6	50	74.5	89.4	ATV950D37N4	50.000/110.231
HD	30	40	54.8	48.3	40.2	50	61.5	92.3		
ND	45	60	79.8	69.1	57.4	50	88	105.6	ATV950D45N4	50.000/110.231
HD	37	50	67.1	59	49.1	50	74.5	111.8		
ND	55	75	97.2	84.2	70	50	106	127.2	ATV950D55N4	87.000/191.802
HD	45	60	81.4	71.8	59.7	50	88	132		
ND	75	100	131.3	112.7	93.7	50	145	174	ATV950D75N4	87.000/191.802
HD	55	75	98.9	86.9	72.2	50	106	159		
ND	90	125	156.2	135.8	112.9	50	173	207.6	ATV950D90N4	87.700/193.345
HD	75	100	134.3	118.1	98.2	50	145	217.5		

(1) These values are given for an adjustable nominal switching frequency of 4 kHz up to **ATV950D45N4** or 2.5 kHz for **ATV950D55N4...D90N4** drives, for use in continuous operation. Above 2.5 or 4 kHz (depending on the rating), the drive will automatically reduce the switching frequency in the event of an excessive temperature rise. For continuous operation above the nominal switching frequency, derate the nominal drive current (see derating curves in the [Installation Manual](#)).

(2) Typical value for the indicated motor power and for the prospective line Isc.

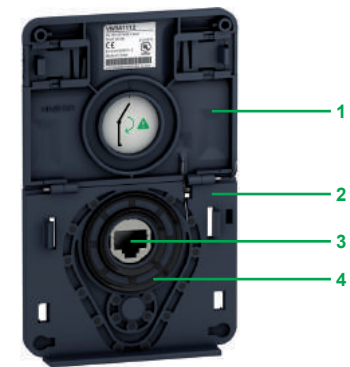
(3) Supplied with cable gland.

(4) Values given for applications requiring a slight overload (up to 120%).

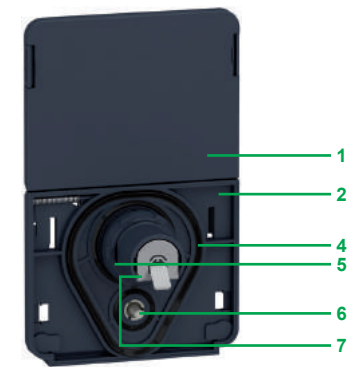
(5) Values given for applications requiring a significant overload (up to 150%).

(6) Category C2 EMC filter for **ATV950U07N4...D45N4** drives. Category C3 EMC filter above **ATV950D45N4**.

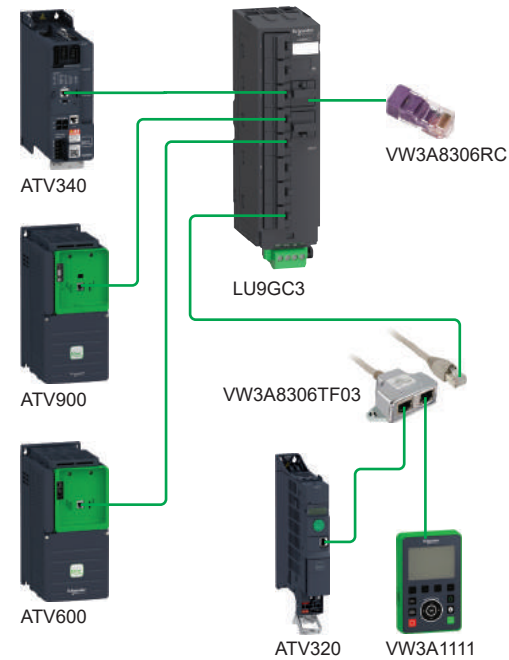
Note: Consult the summary tables of possible drive, option and accessory combinations (see [page 2/18](#)).



Remote mounting kit for mounting graphic display terminal on enclosure door (front panel)



Remote mounting kit for graphic display terminal (rear panel)



Example of multipoint screen architecture

Accessories for graphic display terminal

- Remote mounting kit for mounting on enclosure door with IP65/UL Type 12 protection rating as standard
- The kit comprises:
 - Tightening tool (also sold separately under the reference ZB5AZ905)
 - 1 Cover plate to maintain IP65 protection when there is no terminal connected
 - 2 Mounting plate
 - 3 RJ45 port for the graphic display terminal
 - 4 Seal
 - 5 Fixing nut
 - 6 Anti-rotation pin
 - 7 RJ45 port for connecting the remote-mounting cordset (10 m/33 ft maximum); Cordsets should be ordered separately depending on the length required.
 - 8 Grounding connector

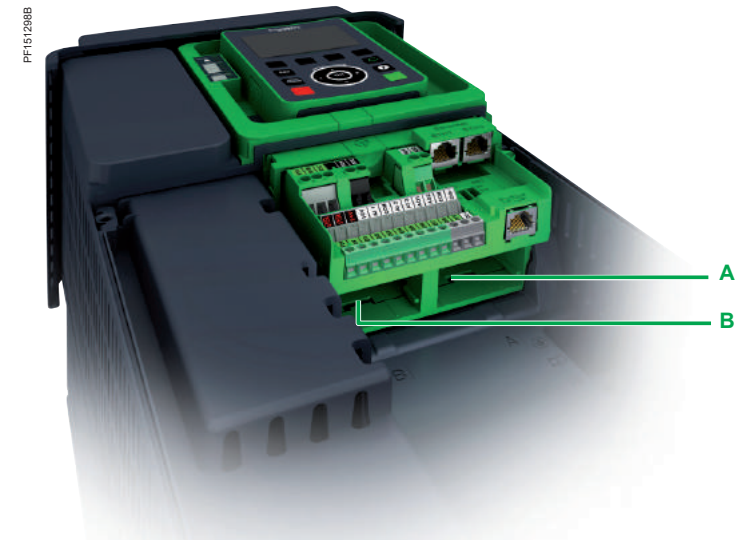
Drilling a hole with a standard Ø 22 tool, as used for a pushbutton, allows the unit to be mounted without needing a cut-out in the enclosure (Ø 22.5 mm/Ø 0.89 in. drill hole).

References				
Description	Length m/ ft	IP rating	Reference	Weight kg/ lb
Remote mounting kit Order with remote-mounting cordset VW3A1104R●●●	–	65/UL Type 12	VW3A1112	–
Tightening tool for remote mounting kit	–	–	ZB5AZ905	0.016/ 0.035
Remote-mounting cordset equipped with 2 RJ45 connectors	1/ 3.28	–	VW3A1104R10	0.050/ 0.110
	3/ 9.84	–	VW3A1104R30	0.150/ 0.331
	5/ 16.40	–	VW3A1104R50	0.250/ 0.551
	10/ 32.81	–	VW3A1104R100	0.500/ 1.102
USB/Mini B USB cable for connecting the display terminal to a PC	–	–	TCSXCNAMUM3P	–

IP65 remote mounting kit for Ethernet port (1) Ø 22 RJ45 female/female adapter with seal	–	65	VW3A1115	0.018/ 0.040
Set of 10 x IP55 shutters: To maintain IP55 protection when the graphic display terminal is removed (2)	–	55	VW3A1116	0.640/ 1.411

Fieldbus modules		
Description	Reference	Slot
CANopen daisy chain	VW3A3608	A
CANopen SUB-D	VW3A3618	A
CANopen screw terminal block	VW3A3628	A
PROFINET	VW3A3627	A
PROFIBUS DP V1	VW3A3607	A
POWERLINK Network	VW3A3619	A
EtherCAT	VW3A3601	A
DeviceNet	VW3A3609	A

- (1) These references can be used only once per drive, e.g. VW3A3203 in slot A and VW3A3204 in slot B.
(2) The Altivar 900 drive must be equipped with an additional module support VW3A3800 (see page 2/26).



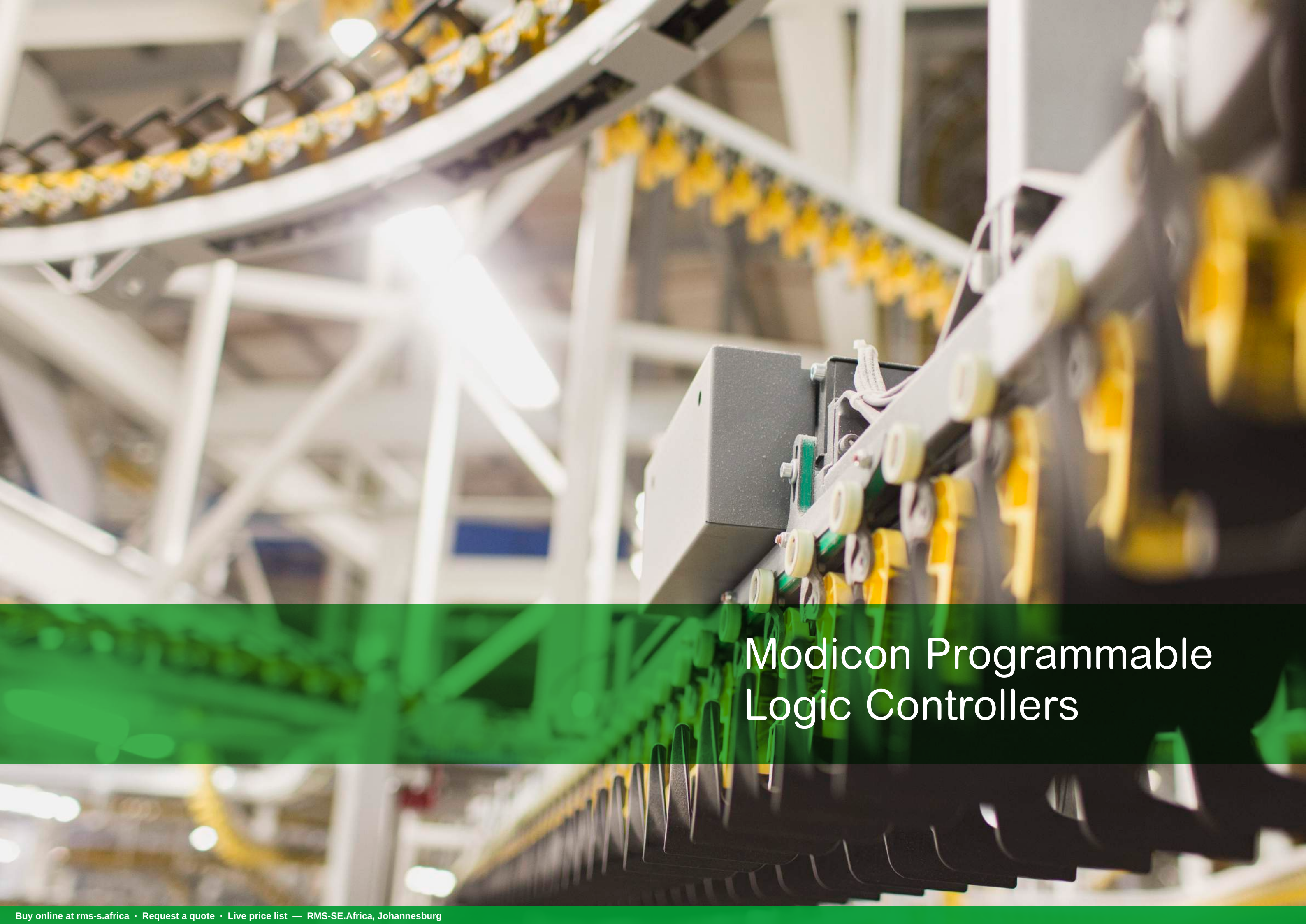
Altivar Process drives slots



VW3A5304

dv/dt output filters						
Corresponding drive	Maximum length of motor cable		Degree of protection	In (3)	Reference (4)	Weight
	Maximum switching frequency (1)	Shielded cable frequency (2)				
	kHz	m/ft	IP	A		kg/lb
Three-phase supply voltage: 380...480 V						
ATV930U07N4...U22N4 ATV950U07N4...U22N4 ATV950U07N4E...U22N4E	4	300/ 984	20	6	VW3A5301	11.000/ 24.251
ATV930U30N4...U55N4 ATV950U30N4...U55N4 ATV950U30N4E...U55N4E	4	300/ 984	20	15	VW3A5302	12.000/ 26.455
ATV930U75N4...D11N4 ATV950U75N4...D11N4 ATV950U75N4E...D11N4E	4	300/ 984	20	25	VW3A5303	12.000/ 26.455
ATV930D15N4...D22N4 ATV950D15N4...D22N4 ATV950D15N4E...D22N4E	4	300/ 984	20	50	VW3A5304	18.000/ 39.683
ATV930D30N4...D45N4 ATV950D30N4...D45N4 ATV950D30N4E...D45N4E	4	300/ 984	20	95	VW3A5305	19.000/ 41.888
ATV930D55N4...D90N4 ATV930D55N4C...D90N4C ATV950D55N4...D90N4 ATV950D55N4E...D90N4E	2.5	300/ 984	00	180	VW3A5306	22.000/ 48.502
ATV930C11N4...C16N4 ATV930C11N4C...C16N4C	2.5	300/ 984	00	305	VW3A5307	40.000/ 88.185
ATV930C22N4 ATV930C22N4C	2.5	250/ 820	00	481	VW3A5106	58.000/ 127.868
ATV930C25N4C...C31N4C	2.5	200/ 656	00	759	VW3A5107	93.000/ 205.030

(1) The filters are designed to operate in a switching frequency range of between 2 and 8 kHz.
(2) Values given depend on the nominal switching frequency of the drive. This frequency depends on the drive rating. These cable lengths are given as examples only as they can vary depending on the application. They correspond to motors conforming to IEC 6034-25 and NEMA MG1/31.2006.
(3) Nominal filter current.
(4) When used with **ATV950U07N4/N4E...D90N4/N4E** drives, the filter must be mounted in a separate enclosure to maintain IP55 protection for the installation.

The background image shows an industrial setting with a complex network of white metal beams and yellow cables. A semi-transparent green rectangular overlay covers the lower half of the image, serving as a backdrop for the text.

Modicon Programmable Logic Controllers