

Product range catalog

PowerXL™ Rapid Link 5

RAMO5

RASP5



Powering Business Worldwide

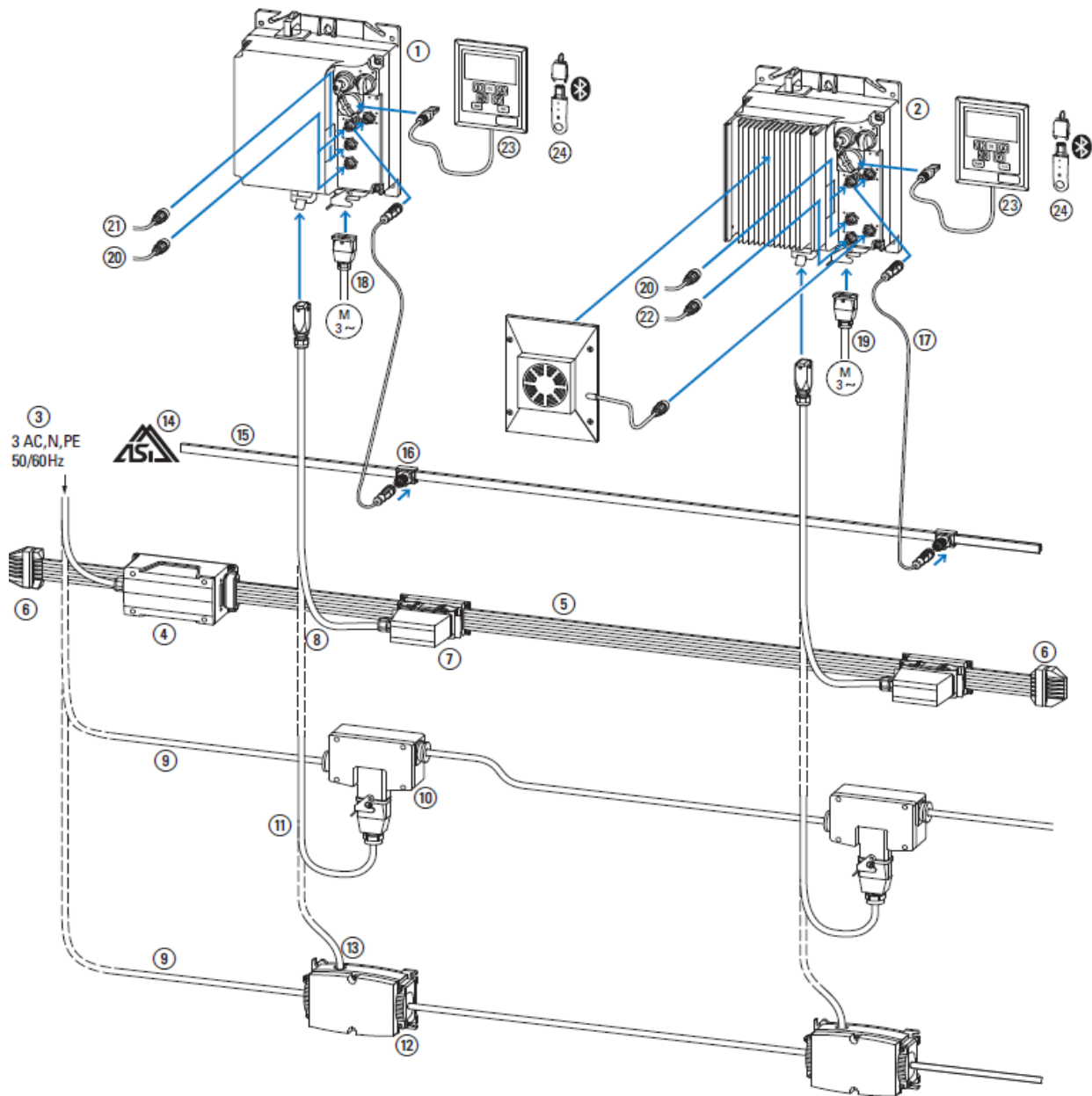
Portfolio Rapid Link 5

Overview

	Page
System overview	3
Key to type reference	4
Motor starter RAMO5	
with AS-Interface Communication	5
with Ethernet/IP Communication	6
with Profinet Communication	6
Frequency inverter RASP5	
with AS-Interface Communication	7 - 8
with Ethernet/IP Communication	9
with Profinet Communication	10 - 11
Accessories	12 - 14
Dimensions	15



PowerXL Rapid Link 5 System Overview



Function modules:

- ① Motor starter RAMO5 (Motor Control Unit):
electronic DOL starter or reversing starter
- ② Frequency inverter RASP5 (Speed Control Unit)

Energy bus:

- ③ Energy supply (3 AC N/PE 400/480 V, 50/60 Hz)
- ④ Energy supply for ribbon cable
- ⑤ Ribbon cable for 400/480 V AC
- ⑥ End-piece for ribbon cable
- ⑦ Ribbon cables abgang
- ⑧ Power connection cable to the ribbon cable junction
- ⑨ Round cable for 400/480 V AC
- ⑩ Plug-in energy junction for round cable
- ⑪ Power connection cable to a plugable round cable junction
- ⑫ Energy junction for round cable (Powerbox)
- ⑬ Power connection cable (round cable) to the Powerbox

Datenbus:

- ⑭ AS-Interface
- ⑮ AS-Interface-ribbon cable
- ⑯ Junction for M12 plug connection
- ⑰ Extension cable with M12 plug

Motor connection:

- ⑱ Unscreened motor cable (for RAMO5)
- ⑲ Screened motor supply cable (for RASP5)
- ⑳ Sensor connection with M12 plug connectors
- ㉑ Actuator connection with M12 plug connectors (for RAMO5)
- ㉒ STO connection (for RASP5)
- ㉓ External keypad DX-KEY-OLED
- ㉔ Bluetooth-Stick DX-COM-STICK3-KIT

PowerXL Rapid Link 5

Key to type references

RAMO5

Electronical motor starter

RAMO5 - D 2 0 0 A 3 1 - 5 1 2 0 S1

D = Direct starter (DOL)
W = Reversing starter (FWD/REV)

2 = 2 Sensor input (2 x M12, 2 PIN assignment)
4 = 4 Sensor inputs (2 x M12, 4 PIN assignment)

0 = 0 Actuator outputs (0 x M12)
1 = 1 Actuator output (1 x M12, 2 PIN assignment)
2 = 2 Actuator outputs (1 x M12, 4 PIN assignment)

0 = no motor brake control
1 = 180/207 V DC motor brake control
2 = 230/277 V AC motor brake control
4 = 400/480 V AC motor brake control

Standard, Version 1

0 = without repair switch
R = with repair switch

512 = HAN Q5, lower entrance
412 = HAN Q4/2, lower entrance

A31 = ASI-3 Profile S-7.4
A32 = ASI-3 Profile S-7.A.E
PNT = PROFINET
EIP = Ethernet/IP

RASP5

Frequency inverter

RASP5 - 2 4 0 0 A 3 1 - 5 1 2 0 0 0 0 S1

2 = 2,4 A (0,75 kW @ 400V)
4 = 4,3 A (1,5 kW @ 400V)
5 = 5,6 A (2,2 kW @ 400V)
8 = 8,5 A (4,0 kW @ 400V)

4 = 4 Sensor inputs (2 x M12, 4 PIN assignment)

0 = 0 Actuator outputs (0 x M12)
2 = 2 Actuator outputs (1 x M12, 4 PIN assignment)

0 = no motor brake control
1 = 180/207 V DC motor brake control
2 = 230/277 V AC motor brake control
4 = 400/480 V AC motor brake control

A31 = ASI-3 Profil S-7.4
PNT = PROFINET
EIP = Ethernet/IP

Standard, Version 1

0 = without fan
1 = with fan (only 4,0kW)

0 = without STO
1 = with STO

0 = without braking resistance
1 = with braking resistance

0 = without repair switch
R = with repair switch

512 = HAN Q5, lower entrance
412 = HAN Q4/2, lower entrance

Rated operational current ¹⁾	assigned motor rating ^{2),3)}		Control voltage external brake ⁴⁾	In-/Outputs	AS-Interface-Profile	Direct starter		Reverse starter			
						without repair switch	with repair switch	without repair switch	with repair switch		
I [A]	P [kW]	P [HP]	(50/60Hz)	Sensor input	Actuator output ⁵⁾	S-7.4 for 31 participants	S-7.4.E. for 62 participants	Part no. Article no.	Part no. Article no.	Part no. Article no.	Part no. Article no.
6.6	0.09-3	0.125-4	-	2	0	x	-	RAMO5-D200A31-5120S1 198517	RAMO5-D200A31-512RS1 198518	RAMO5-W200A31-5120S1 198529	RAMO5-W200A31-512RS1 198530
				2	0	x	-	RAMO5-D200A31-4120S1 199060	RAMO5-D200A31-412RS1 199069	RAMO5-W200A31-4120S1 199080	RAMO5-W200A31-412RS1 199099
				2	1	x	-			RAMO5-W210A31-4120S1 199084	RAMO5-W210A31-412RS1 199103
				2	0	-	x		RAMO5-D200A32-512RS1 199073	RAMO5-W200A32-5120S1 199088	RAMO5-W200A32-512RS1 199107
				2	0	-	x	RAMO5-D200A32-4120S1 199064	RAMO5-D200A32-412RS1 199075	RAMO5-W200A32-4120S1 199090	RAMO5-W200A32-412RS1 199109
				2	1	-	x			RAMO5-W210A32-4120S1 199094	RAMO5-W210A32-412RS1 199113
180/207V DC				2	0	x	-		RAMO5-D201A31-512RS1 199068	RAMO5-W201A31-5120S1 199079	RAMO5-W201A31-512RS1 199098
				2	0	x	-	RAMO5-D201A31-4120S1 199061	RAMO5-D201A31-412RS1 199070	RAMO5-W201A31-4120S1 199081	RAMO5-W201A31-412RS1 199100
				2	1	x	-			RAMO5-W211A31-4120S1 199085	RAMO5-W211A31-412RS1 199104
				2	0	-	x		RAMO5-D201A32-512RS1 199074	RAMO5-W201A32-5120S1 199089	RAMO5-W201A32-512RS1 199108
				2	0	-	x	RAMO5-D201A32-4120S1 199065	RAMO5-D201A32-412RS1 199076	RAMO5-W201A32-4120S1 199091	RAMO5-W201A32-412RS1 199110
				2	1	-	x			RAMO5-W211A32-4120S1 199095	RAMO5-W211A32-412RS1 199114
230/277V AC				2	0	x	-	RAMO5-D202A31-5120S1 198519	RAMO5-D202A31-512RS1 198520	RAMO5-W202A31-5120S1 198531	RAMO5-W202A31-512RS1 198532
				2	0	x	-	RAMO5-D202A31-4120S1 199062	RAMO5-D202A31-412RS1 199071	RAMO5-W202A31-4120S1 199082	RAMO5-W202A31-412RS1 199101
				2	1	x	-	RAMO5-D212A31-5120S1 198527		RAMO5-W212A31-5120S1 198539	
				2	1	x	-			RAMO5-W212A31-4120S1 199086	RAMO5-W212A31-412RS1 199105
				2	0	-	x	RAMO5-D202A32-5120S1 198521	RAMO5-D202A32-512RS1 198522	RAMO5-W202A32-5120S1 198533	RAMO5-W202A32-512RS1 198534
				2	0	-	x	RAMO5-D202A32-4120S1 199066	RAMO5-D202A32-412RS1 199077	RAMO5-W202A32-4120S1 199092	RAMO5-W202A32-412RS1 199111
				2	1	-	x			RAMO5-W212A32-5120S1 198540	
				2	1	-	x			RAMO5-W212A32-4120S1 199096	RAMO5-W212A32-412RS1 199115
400/480V AC				2	0	x	-	RAMO5-D204A31-5120S1 198523	RAMO5-D204A31-512RS1 198524	RAMO5-W204A31-5120S1 198535	RAMO5-W204A31-512RS1 198536
				2	0	x	-	RAMO5-D204A31-4120S1 199063	RAMO5-D204A31-412RS1 199072	RAMO5-W204A31-4120S1 199083	RAMO5-W204A31-412RS1 199102
				2	1	x	-	RAMO5-D214A31-5120S1 198528		RAMO5-W214A31-5120S1 198541	
				2	1	x	-			RAMO5-W214A31-4120S1 199087	RAMO5-W214A31-412RS1 199106
				2	0	-	x	RAMO5-D204A32-5120S1 198525	RAMO5-D204A32-512RS1 198526	RAMO5-W204A32-5120S1 198537	RAMO5-W204A32-512RS1 198538
				2	0	-	x	RAMO5-D204A32-4120S1 199067	RAMO5-D204A32-412RS1 199078	RAMO5-W204A32-4120S1 199093	RAMO5-W204A32-412RS1 199112
				2	1	-	x			RAMO5-W214A32-4120S1 199097	RAMO5-W214A32-412RS1 ===199116

Instructions

- 1) 0.3 - 6.6 adjustable
- 2) for normal internally and externally ventilated 4 pole, three-phase asynchronous motors with 1500min-1 at 50 Hz or 1800min-1 bei 60 Hz
- 3) at 400V, 50 Hz
at 440 - 480V, 60 Hz
- 4) for actuation of motors with mechanical brake
- 5) Operation with external 24-V-DC supply

Data overview

Motor starter RAMO5

Ethernet/IP

Rated operational current ¹⁾	assigned motor rating ^{2),3)}	Control voltage external brake ⁴⁾	In-/Outputs	Direct starter		Reverse starter			
				without repair switch	with repair switch	without repair switch	with repair switch		
I [A]	P [kW]	P [HP]	(50/60Hz)	Sensor input	Actuator output ⁵⁾	Part no. Article no.	Part no. Article no.	Part no. Article no.	Part no. Article no.
6.6	0.09-3	0.125 - 4	-	4	2		RAMO5-D420EIP-412RS1 199117		RAMO5-W420EIP-412RS1 199121
			180/207V DC	4	2		RAMO5-D421EIP-412RS1 199118		RAMO5-W421EIP-412RS1 199122
			230/277V AC	4	2		RAMO5-D422EIP-412RS1 199119		RAMO5-W422EIP-412RS1 199123
			400/480V AC	4	2		RAMO5-D424EIP-412RS1 199120		RAMO5-W424EIP-412RS1 199124

Profnet

Rated operational current ¹⁾	assigned motor rating ^{2),3)}	Control voltage external brake ⁴⁾	In-/Outputs	Direct starter		Reverse starter			
				without repair switch	with repair switch	without repair switch	with repair switch		
I [A]	P [kW]	P [HP]	(50/60Hz)	Sensor input	Actuator output ⁵⁾	Part no. Article no.	Part no. Article no.	Part no. Article no.	Part no. Article no.
6.6	0.09-3	0.125 - 4	-	4	2	RAMO5-D420PNT-4120S1 199125	RAMO5-D420PNT-412RS1 199129	RAMO5-W420PNT-4120S1 199133	RAMO5-W420PNT-4120S1 199133
			180/207V DC	4	2	RAMO5-D421PNT-4120S1 199126	RAMO5-D421PNT-412RS1 199130	RAMO5-W421PNT-4120S1 199134	RAMO5-W421PNT-4120S1 199134
			230/277V AC	4	2	RAMO5-D422PNT-4120S1 199127	RAMO5-D422PNT-412RS1 199131	RAMO5-W422PNT-4120S1 199135	RAMO5-W422PNT-4120S1 199135
			400/480V AC	4	2	RAMO5-D424PNT-4120S1 199128	RAMO5-D424PNT-412RS1 199132	RAMO5-W424PNT-4120S1 199136	RAMO5-W424PNT-4120S1 199136

Instructions

- 1) 0.3 - 6.6 adjustable
- 2) for normal internally and externally ventilated 4 pole, three-phase asynchronous motors with 1500min-1 at 50 Hz or 1800min-1 bei 60 Hz
- 3) at 400V, 50 Hz
at 440 - 480V, 60 Hz
- 4) for actuation of motors with mechanical brake
- 5) Operation with external 24-V-DC supply

AS-Interface

Rated operational current ¹⁾	assigned motor rating ^{2),3)}		Control voltage external brake ⁴⁾	In-/Outputs	AS-Interface-Profil	without internal brake resistor		with internal brake resistor ⁵⁾				
	I [A]	P [kW]				P [HP]	without repair switch	with repair switch	without repair switch	with repair switch		
			(50/60Hz)	Sensor input	Actuator output ⁶⁾	S-7.4 for 31 participants	Safe-Torque-off	Part no. Article no.	Part no. Article no.	Part no. Article no.	Part no. Article no.	
2.4	0.75	1	0	4	0	x	-	RASP5-2400A31-512000S1 198542	RASP5-2400A31-512R00S1 198548	RASP5-2400A31-512010S1 198545	RASP5-2400A31-512R10S1 198551	
								RASP5-2400A31-412000S1 198728	RASP5-2400A31-412R00S1 198744	RASP5-2400A31-412010S1 198732	RASP5-2400A31-412R10S1 198748	
								RASP5-2400A31-412001S1 198736	RASP5-2400A31-412R01S1 198752	RASP5-2400A31-412011S1 198740	RASP5-2400A31-412R11S1 198756	
	180/207V DC	4	0	x	-	0	x	-	RASP5-2401A31-512000S1 198724	RASP5-2401A31-512R00S1 198726	RASP5-2401A31-512010S1 198725	RASP5-2401A31-512R10S1 198727
									RASP5-2401A31-412000S1 198729	RASP5-2401A31-412R00S1 198745	RASP5-2401A31-412010S1 198733	RASP5-2401A31-412R10S1 198749
									RASP5-2401A31-412001S1 198737	RASP5-2401A31-412R01S1 198753	RASP5-2401A31-412011S1 198741	RASP5-2401A31-412R11S1 198757
	230/277V AC	4	0	x	-	0	x	-	RASP5-2402A31-512000S1 198543	RASP5-2402A31-512R00S1 198549	RASP5-2402A31-512010S1 198546	RASP5-2402A31-512R10S1 198552
									RASP5-2402A31-412000S1 198730	RASP5-2402A31-412R00S1 198746	RASP5-2402A31-412010S1 198734	RASP5-2402A31-412R10S1 198750
									RASP5-2402A31-412001S1 198738	RASP5-2402A31-412R01S1 198754	RASP5-2402A31-412011S1 198742	RASP5-2402A31-412R11S1 198758
400/480V AC	4	0	x	-	0	x	-	RASP5-2404A31-512000S1 198544	RASP5-2404A31-512R00S1 198550	RASP5-2404A31-512010S1 198547	RASP5-2404A31-512R10S1 198553	
								RASP5-2404A31-412000S1 198731	RASP5-2404A31-412R00S1 198747	RASP5-2404A31-412010S1 198735	RASP5-2404A31-412R10S1 198751	
								RASP5-2404A31-412001S1 198739	RASP5-2404A31-412R01S1 198755	RASP5-2404A31-412011S1 198743	RASP5-2404A31-412R11S1 198759	
4.3	1.5	2	-	4	0	x	-	RASP5-4400A31-512000S1 198554	RASP5-4400A31-512R00S1 198560	RASP5-4400A31-512010S1 198557	RASP5-4400A31-512R10S1 198563	
								RASP5-4400A31-412000S1 198764	RASP5-4400A31-412R00S1 198780	RASP5-4400A31-412010S1 198768	RASP5-4400A31-412R10S1 198784	
								RASP5-4400A31-412001S1 198772	RASP5-4400A31-412R01S1 198788	RASP5-4400A31-412011S1 198776	RASP5-4400A31-412R11S1 198792	
	180/207V DC	4	0	x	-	0	x	-	RASP5-4401A31-512000S1 198760	RASP5-4401A31-512R00S1 198762	RASP5-4401A31-512010S1 198761	RASP5-4401A31-512R10S1 198763
									RASP5-4401A31-412000S1 198765	RASP5-4401A31-412R00S1 198781	RASP5-4401A31-412010S1 198769	RASP5-4401A31-412R10S1 198785
									RASP5-4401A31-412001S1 198773	RASP5-4401A31-412R01S1 198789	RASP5-4401A31-412011S1 198777	RASP5-4401A31-412R11S1 198793
	230/277V AC	4	0	x	-	0	x	-	RASP5-4402A31-512000S1 198555	RASP5-4402A31-512R00S1 198561	RASP5-4402A31-512010S1 198558	RASP5-4402A31-512R10S1 198564
									RASP5-4402A31-412000S1 198766	RASP5-4402A31-412R00S1 198782	RASP5-4402A31-412010S1 198770	RASP5-4402A31-412R10S1 198786
									RASP5-4402A31-412001S1 198774	RASP5-4402A31-412R01S1 198790	RASP5-4402A31-412011S1 198778	RASP5-4402A31-412R11S1 198794
	400/480V AC	4	0	x	-	0	x	-	RASP5-4404A31-512000S1 198556	RASP5-4404A31-512R00S1 198562	RASP5-4404A31-512010S1 198559	RASP5-4404A31-512R10S1 198565
									RASP5-4404A31-412000S1 198767	RASP5-4404A31-412R00S1 198783	RASP5-4404A31-412010S1 198771	RASP5-4404A31-412R10S1 198787
									RASP5-4404A31-412001S1 198775	RASP5-4404A31-412R01S1 198791	RASP5-4404A31-412011S1 198779	RASP5-4404A31-412R11S1 198795

Data overview

Frequency inverter RASP5 AS-Interface

Rated operational current ¹⁾	assigned motor rating ^{2),3)}		Control voltage external brake ⁴⁾	In-/Outputs	AS-Interface-Profile	without internal brake resistor		with internal brake resistor ⁵⁾				
						without repair switch	with repair switch	without repair switch	with repair switch			
						Part no. Article no.	Part no. Article no.	Part no. Article no.	Part no. Article no.			
5.6	2.2	3	-	4	0	x	-	RASP5-5400A31-512000S1	RASP5-5400A31-512000S1	RASP5-5400A31-512010S1	RASP5-5400A31-512R100S1	
								198566	198566	198569	198575	
								RASP5-5400A31-412000S1	RASP5-5400A31-412000S1	RASP5-5400A31-412010S1	RASP5-5400A31-412R100S1	
				198800	198800	198804	198820					
				RASP5-5400A31-412001S1	RASP5-5400A31-412001S1	RASP5-5400A31-412011S1	RASP5-5400A31-412R110S1					
				198808	198808	198812	198828					
				180/207V DC	4	0	x	-	RASP5-5401A31-512000S1	RASP5-5401A31-512000S1	RASP5-5401A31-512010S1	RASP5-5401A31-512R100S1
				198796	198796	198797	198799					
				RASP5-5401A31-412000S1	RASP5-5401A31-412000S1	RASP5-5401A31-412010S1	RASP5-5401A31-412R100S1					
	198801	198801	198805	198821								
	RASP5-5401A31-412001S1	RASP5-5401A31-412001S1	RASP5-5401A31-412011S1	RASP5-5401A31-412R110S1								
	198809	198809	198813	198829								
	230/277V AC	4	0	x	-	RASP5-5402A31-512000S1	RASP5-5402A31-512000S1	RASP5-5402A31-512010S1	RASP5-5402A31-512R100S1			
	198567	198567	198570	198576								
	RASP5-5402A31-412000S1	RASP5-5402A31-412000S1	RASP5-5402A31-412010S1	RASP5-5402A31-412R100S1								
	198802	198802	198806	198822								
	RASP5-5402A31-412001S1	RASP5-5402A31-412001S1	RASP5-5402A31-412011S1	RASP5-5402A31-412R110S1								
	198810	198810	198814	198830								
400/480V AC	4	0	x	-	RASP5-5404A31-512000S1	RASP5-5404A31-512000S1	RASP5-5404A31-512010S1	RASP5-5404A31-512R100S1				
198568	198568	198571	198577									
RASP5-5404A31-412000S1	RASP5-5404A31-412000S1	RASP5-5404A31-412010S1	RASP5-5404A31-412R100S1									
198803	198803	198807	198823									
RASP5-5404A31-412001S1	RASP5-5404A31-412001S1	RASP5-5404A31-412011S1	RASP5-5404A31-412R110S1									
198811	198811	198815	198831									
8.5	4	5	-	4	0	x	-	RASP5-8400A31-512000S1	RASP5-8400A31-512000S1	RASP5-8400A31-512010S1	RASP5-8400A31-512R101S1	
								198578	198578	198581	198587	
								RASP5-8400A31-412000S1	RASP5-8400A31-412000S1	RASP5-8400A31-412010S1	RASP5-8400A31-412R101S1	
				198836	198836	198840	198856					
				RASP5-8400A31-412001S1	RASP5-8400A31-412001S1	RASP5-8400A31-412011S1	RASP5-8400A31-412R111S1					
				198844	198844	198848	198864					
				180/207V DC	4	0	x	-	RASP5-8401A31-512000S1	RASP5-8401A31-512000S1	RASP5-8401A31-512010S1	RASP5-8401A31-512R101S1
				198832	198832	198833	198835					
				RASP5-8401A31-412000S1	RASP5-8401A31-412000S1	RASP5-8401A31-412010S1	RASP5-8401A31-412R101S1					
	198837	198837	198841	198857								
	RASP5-8401A31-412001S1	RASP5-8401A31-412001S1	RASP5-8401A31-412011S1	RASP5-8401A31-412R111S1								
	198845	198845	198849	198865								
	230/277V AC	4	0	x	-	RASP5-8402A31-512000S1	RASP5-8402A31-512000S1	RASP5-8402A31-512010S1	RASP5-8402A31-512R101S1			
	198579	198579	198582	198588								
	RASP5-8402A31-412000S1	RASP5-8402A31-412000S1	RASP5-8402A31-412010S1	RASP5-8402A31-412R101S1								
	198838	198838	198842	198858								
	RASP5-8402A31-412001S1	RASP5-8402A31-412001S1	RASP5-8402A31-412011S1	RASP5-8402A31-412R111S1								
	198846	198846	198850	198866								
400/480V AC	4	0	x	-	RASP5-8404A31-512000S1	RASP5-8404A31-512000S1	RASP5-8404A31-512010S1	RASP5-8404A31-512R101S1				
198580	198580	198583	198589									
RASP5-8404A31-412000S1	RASP5-8404A31-412000S1	RASP5-8404A31-412010S1	RASP5-8404A31-412R101S1									
198839	198839	198843	198859									
RASP5-8404A31-412001S1	RASP5-8404A31-412001S1	RASP5-8404A31-412011S1	RASP5-8404A31-412R111S1									
198847	198847	198851	198867									

Ethernet/IP

without internal brake resistor

with internal brake resistor⁵⁾

Rated operational current ¹⁾	assigned motor rating ^{2),3)}		Control voltage external brake ⁴⁾	In-/Outputs			without repair switch		with repair switch											
	I [A]	P [kW]		P [HP]	(50/60Hz)	Sensor input	Actuator output ⁶⁾	Safe-Torque-off	Part no. Article no.	Part no. Article no.	Part no. Article no.	Part no. Article no.								
2.4	0.75	1	-	4	2	-			RASP5-2420EIP-412R000S1 198868		RASP5-2420EIP-412R100S1 198872									
									RASP5-2420EIP-412R010S1 198876		RASP5-2420EIP-412R110S1 198880									
								180/207V DC		RASP5-2421EIP-412R000S1 198869		RASP5-2421EIP-412R100S1 198873								
										RASP5-2421EIP-412R010S1 198877		RASP5-2421EIP-412R110S1 198881								
								230/277V AC		RASP5-2422EIP-412R000S1 198870		RASP5-2422EIP-412R100S1 198874								
										RASP5-2422EIP-412R010S1 198878		RASP5-2422EIP-412R110S1 198882								
								400/480V AC		RASP5-2424EIP-412R000S1 198871		RASP5-2424EIP-412R100S1 198875								
										RASP5-2424EIP-412R010S1 198879		RASP5-2424EIP-412R110S1 198883								
								4.3	1.5	2	-	4	2	-			RASP5-4420EIP-412R000S1 198884		RASP5-4420EIP-412R100S1 198888	
																	RASP5-4420EIP-412R010S1 198892		RASP5-4420EIP-412R110S1 198896	
																180/207V DC		RASP5-4421EIP-412R000S1 198885		RASP5-4421EIP-412R100S1 198889
																		RASP5-4421EIP-412R010S1 198893		RASP5-4421EIP-412R110S1 198897
230/277V AC		RASP5-4422EIP-412R000S1 198886		RASP5-4422EIP-412R100S1 198890																
		RASP5-4422EIP-412R010S1 198894		RASP5-4422EIP-412R110S1 198898																
400/480V AC		RASP5-4424EIP-412R000S1 198887		RASP5-4424EIP-412R100S1 198891																
		RASP5-4424EIP-412R010S1 198895		RASP5-4424EIP-412R110S1 198899																
5.6	2.2	3	-	4	2	-											RASP5-5420EIP-412R000S1 198900		RASP5-5420EIP-412R100S1 198904	
																	RASP5-5420EIP-412R010S1 198908		RASP5-5420EIP-412R110S1 198912	
																180/207V DC		RASP5-5421EIP-412R000S1 198901		RASP5-5421EIP-412R100S1 198905
																		RASP5-5421EIP-412R010S1 198909		RASP5-5421EIP-412R110S1 198913
								230/277V AC		RASP5-5422EIP-412R000S1 198902		RASP5-5422EIP-412R100S1 198906								
										RASP5-5422EIP-412R010S1 198910		RASP5-5422EIP-412R110S1 198914								
								400/480V AC		RASP5-5424EIP-412R000S1 198903		RASP5-5424EIP-412R100S1 198907								
										RASP5-5424EIP-412R010S1 198911		RASP5-5424EIP-412R110S1 198915								
								8.5	4	5	-	4	2	-			RASP5-8420EIP-412R001S1 198916		RASP5-8420EIP-412R101S1 198920	
																	RASP5-8420EIP-412R011S1 198924		RASP5-8420EIP-412R111S1 198928	
																180/207V DC		RASP5-8421EIP-412R001S1 198917		RASP5-8421EIP-412R101S1 198921
																		RASP5-8421EIP-412R011S1 198925		RASP5-8421EIP-412R111S1 198929
230/277V AC		RASP5-8422EIP-412R001S1 198918		RASP5-8422EIP-412R101S1 198922																
		RASP5-8422EIP-412R011S1 198926		RASP5-8422EIP-412R111S1 198930																
400/480V AC		RASP5-8424EIP-412R001S1 198919		RASP5-8424EIP-412R101S1 198923																
		RASP5-8424EIP-412R011S1 198927		RASP5-8424EIP-412R111S1 198931																

Instructions

- 1) Rated operational current at an operating frequency of 6 kHz and an ambient air temperature of +40 °C
- 2) for normal internally and externally ventilated 4 pole, three-phase asynchronous motors with 1500 rpm-1 at 50 Hz or 1800 min-1 at 60 Hz
- 3) at 400V, 50 Hz
at 440 - 480V, 60 Hz
- 4) for actuation of motors with mechanical brake
- 5) integrated brake chopper with braking resistance for dynamic braking

Data overview

Frequency inverter RASP5

Profnet

without internal brake resistor

with internal brake resistor⁵⁾

Rated operational current ¹⁾	assigned motor rating ^{2),3)}		Control voltage external brake ⁴⁾	In-/Outputs	STO	without internal brake resistor		with internal brake resistor ⁵⁾							
	I [A]	P [kW]				P [HP]	without repair switch	with repair switch	without repair switch	with repair switch					
			(50/60Hz)	Sensor input	Actuator output ⁶⁾	Safe-Torque-off	Part no. Article no.	Part no. Article no.	Part no. Article no.	Part no. Article no.					
2.4	0.75	1	-	4	2	-	RASP5-2420PNT-412000S1 198932	RASP5-2420PNT-412R00S1 198948	RASP5-2420PNT-4120100S1 198936	RASP5-2420PNT-412R100S1 198952					
						x	RASP5-2420PNT-4120010S1 198940	RASP5-2420PNT-412R010S1 198956	RASP5-2420PNT-4120110S1 198944	RASP5-2420PNT-412R110S1 198960					
				180/207V DC	4	2	-	RASP5-2421PNT-412000S1 198933	RASP5-2421PNT-412R00S1 198949	RASP5-2421PNT-4120100S1 198937	RASP5-2421PNT-412R100S1 198953				
							x	RASP5-2421PNT-4120010S1 198941	RASP5-2421PNT-412R010S1 198957	RASP5-2421PNT-4120110S1 198945	RASP5-2421PNT-412R110S1 198961				
				230/277V AC	4	2	-	RASP5-2422PNT-412000S1 198934	RASP5-2422PNT-412R00S1 198950	RASP5-2422PNT-4120100S1 198938	RASP5-2422PNT-412R100S1 198954				
							x	RASP5-2422PNT-4120010S1 198942	RASP5-2422PNT-412R010S1 198958	RASP5-2422PNT-4120110S1 198946	RASP5-2422PNT-412R110S1 198962				
				400/480V AC	4	2	-	RASP5-2424PNT-412000S1 198935	RASP5-2424PNT-412R00S1 198951	RASP5-2424PNT-4120100S1 198939	RASP5-2424PNT-412R100S1 198955				
							x	RASP5-2424PNT-4120010S1 198943	RASP5-2424PNT-412R010S1 198959	RASP5-2424PNT-4120110S1 198947	RASP5-2424PNT-412R110S1 198963				
				4.3	1.5	2	-	4	2	-	RASP5-4420PNT-412000S1 198964	RASP5-4420PNT-412R00S1 198980	RASP5-4420PNT-4120100S1 198968	RASP5-4420PNT-412R100S1 198984	
										x	RASP5-4420PNT-4120010S1 198972	RASP5-4420PNT-412R010S1 198988	RASP5-4420PNT-4120110S1 198976	RASP5-4420PNT-412R110S1 198992	
								180/207V DC	4	2	-	RASP5-4421PNT-412000S1 198965	RASP5-4421PNT-412R00S1 198981	RASP5-4421PNT-4120100S1 198969	RASP5-4421PNT-412R100S1 198985
											x	RASP5-4421PNT-4120010S1 198973	RASP5-4421PNT-412R010S1 198989	RASP5-4421PNT-4120110S1 198977	RASP5-4421PNT-412R110S1 198993
230/277V AC	4	2	-					RASP5-4422PNT-412000S1 198966	RASP5-4422PNT-412R00S1 198982	RASP5-4422PNT-4120100S1 198970	RASP5-4422PNT-412R100S1 198986				
			x					RASP5-4422PNT-4120010S1 198974	RASP5-4422PNT-412R010S1 198990	RASP5-4422PNT-4120110S1 198978	RASP5-4422PNT-412R110S1 198994				
400/480V AC	4	2	-					RASP5-4424PNT-412000S1 198967	RASP5-4424PNT-412R00S1 198983	RASP5-4424PNT-4120100S1 198971	RASP5-4424PNT-412R100S1 198987				
			x					RASP5-4424PNT-4120010S1 198975	RASP5-4424PNT-412R010S1 198991	RASP5-4424PNT-4120110S1 198979	RASP5-4424PNT-412R110S1 198995				

Instructions

- 1) Rated operational current at an operating frequency of 6 kHz and an ambient air temperature of +40 °C
- 2) for normal internally and externally ventilated 4 pole, three-phase asynchronous motors with 1500 rpm-1 at 50 Hz or 1800 min-1 at 60 Hz
- 3) at 400V, 50 Hz
at 440 - 480V, 60 Hz
- 4) for actuation of motors with mechanical brake
- 5) integrated brake chopper with braking resistance for dynamic braking

Data overview

Frequency inverter RASP5

Profnet

without internal brake resistor

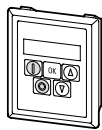



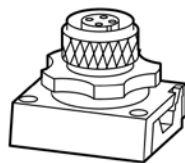
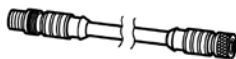
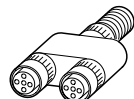
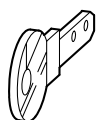
with internal brake resistor⁵⁾

Rated operational current ¹⁾	assigned motor rating ^{2),3)}		Control voltage external brake ⁴⁾ (50/60Hz)	In-/Outputs			STO	without internal brake resistor		with internal brake resistor ⁵⁾					
	I [A]	P [kW]		P [HP]	Sensor input	Actuator output ⁵⁾		Safe-Torque-off	without repair switch	with repair switch	without repair switch	with repair switch			
							Part no. Article no.	Part no. Article no.	Part no. Article no.	Part no. Article no.					
5.6	2.2	3	-	4	2	-	RASP5-5420PNT-412000S1 198996	RASP5-5420PNT-412R00S1 199012	RASP5-5420PNT-412010S1 199000	RASP5-5420PNT-412R10S1 199016					
					2	x	RASP5-5420PNT-412001S1 199004	RASP5-5420PNT-412R01S1 199020	RASP5-5420PNT-412011S1 199008	RASP5-5420PNT-412R11S1 199024					
				180/207V DC	4	2	-	RASP5-5421PNT-412000S1 198997	RASP5-5421PNT-412R00S1 199013	RASP5-5421PNT-412010S1 199001	RASP5-5421PNT-412R10S1 199017				
					4	2	x	RASP5-5421PNT-412001S1 199005	RASP5-5421PNT-412R01S1 199021	RASP5-5421PNT-412011S1 199009	RASP5-5421PNT-412R11S1 199025				
				230/277V AC	4	2	-	RASP5-5422PNT-412000S1 198998	RASP5-5422PNT-412R00S1 199014	RASP5-5422PNT-412010S1 199002	RASP5-5422PNT-412R10S1 199018				
					4	2	x	RASP5-5422PNT-412001S1 199006	RASP5-5422PNT-412R01S1 199022	RASP5-5422PNT-412011S1 199010	RASP5-5422PNT-412R11S1 199026				
				400/480V AC	4	2	-	RASP5-5424PNT-412000S1 198999	RASP5-5424PNT-412R00S1 199015	RASP5-5424PNT-412010S1 199003	RASP5-5424PNT-412R10S1 199019				
					4	2	x	RASP5-5424PNT-412001S1 199007	RASP5-5424PNT-412R01S1 199023	RASP5-5424PNT-412011S1 199011	RASP5-5424PNT-412R11S1 199027				
				8.5	4	5	-	4	2	-	RASP5-8420PNT-412000S1 199028	RASP5-8420PNT-412R00S1 199044	RASP5-8420PNT-412010S1 199032	RASP5-8420PNT-412R10S1 199048	
									2	x	RASP5-8420PNT-412001S1 199036	RASP5-8420PNT-412R01S1 199052	RASP5-8420PNT-412011S1 199040	RASP5-8420PNT-412R11S1 199056	
								180/207V DC	4	2	-	RASP5-8421PNT-412000S1 199029	RASP5-8421PNT-412R00S1 199045	RASP5-8421PNT-412010S1 199033	RASP5-8421PNT-412R10S1 199049
									4	2	x	RASP5-8421PNT-412001S1 199037	RASP5-8421PNT-412R01S1 199053	RASP5-8421PNT-412011S1 199041	RASP5-8421PNT-412R11S1 199057
230/277V AC	4	2	-					RASP5-8422PNT-412000S1 199030	RASP5-8422PNT-412R00S1 199046	RASP5-8422PNT-412010S1 199034	RASP5-8422PNT-412R10S1 199050				
	4	2	x					RASP5-8422PNT-412001S1 199038	RASP5-8422PNT-412R01S1 199054	RASP5-8422PNT-412011S1 199042	RASP5-8422PNT-412R11S1 199058				
400/480V AC	4	2	-					RASP5-8424PNT-412000S1 199031	RASP5-8424PNT-412R00S1 199047	RASP5-8424PNT-412010S1 199035	RASP5-8424PNT-412R10S1 199051				
	4	2	x					RASP5-8424PNT-412001S1 199039	RASP5-8424PNT-412R01S1 199055	RASP5-8424PNT-412011S1 199043	RASP5-8424PNT-412R11S1 199059				

Instructions

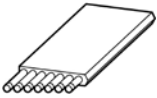


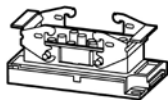
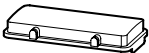
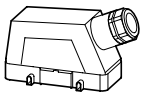
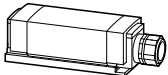
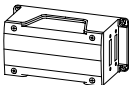




- 1) Rated operational current at an operating frequency of 6 kHz and an ambient air temperature of +40 °C
- 2) for normal internally and externally ventilated 4 pole, three-phase asynchronous motors with 1500 rpm-1 at 50 Hz or 1800 min-1 at 60 Hz
- 3) at 400V, 50 Hz
at 440 - 480V, 60 Hz
- 4) for actuation of motors with mechanical brake
- 5) integrated brake chopper with braking resistance for dynamic braking

PowerXL Rapid Link 5 Accessories



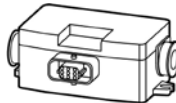

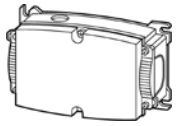

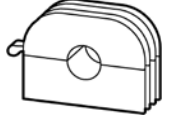
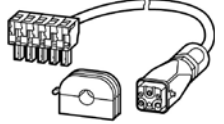
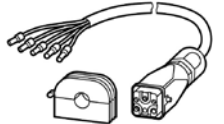
Description	Length [m]	For use with	Part no. Article no.	Std. pack	Instructions
Communication					
Operation unit for setting the device parameters					
	OLED display Front IP54, multilingual with approx. 3m plug-in connection cable (RJ45, 8-pin)	3	RASP5, RAM05	DX-KEY-OLED 169133	1 off -
Programming cable for connecting the device to the PC					
	For configuring the device's parameters with the drivesConnect computer program with RJ 45 plug and USB plug	3.4	RASP5, RAM05	DX-CBL-PC-3M0 744-A3036-00P	1 off -
Parameter storage unit and Bluetooth communication stick					
	For storage, copying parameters, and/or transferring parameters to a PC with the drivesConnect software via Bluetooth		RASP5, RAM05	DX-COM-STICK3-KIT 197586	1 off -
Motor feeder					
Motor cable for connecting the motor starter to the motor					
	halogen free, 8 x 1,5 mm2, plastic plug	2	RAM05	RAMO-CM1-2M0 164282	1 off -
		5	RAM05	RAMO-CM1-5M0 164283	1 off -
		10	RAM05	RAMO-CM1-10M 164284	1 off -
	halogen free, screened, 4 x 1,5 mm2 + 2 x (2 x 0,75 mm2), plastic plug	2	RASP5	RASP-CM2-2M0 198280	1 off -
		5	RASP5	RASP-CM2-5M0 198281	1 off -
		10	RASP5	RASP-CM2-10M 198282	1 off -
AS-Interface connection and sensors					
AS-Interface link M12 connection socket for AS-Interface connection cable					
	IDC termination		RAM05 RASP5	ZB2-100-AZ1 082667	1 off -
AS-Interface connection cable for connecting the device with AS-Interface junction					
	with M12 socket and M12 plug, 3-pole	1	RAM05 RASP5	RA-XM12-1M 272057	1 off Pin 1, 3, 4 are assigned
Y connector For connecting up to 2 sensors per M12 socket					
	-		RASP5	RA-XM12-Y 290424	1 off -
Spare keys					
for AUTO - OFF/RESET - HAND key-switches					
	Lock mechanism MS1		RAM05 RASP5	M22-ES-MS1 216416	1 off -

PowerXL Rapid Link 5

Accessories

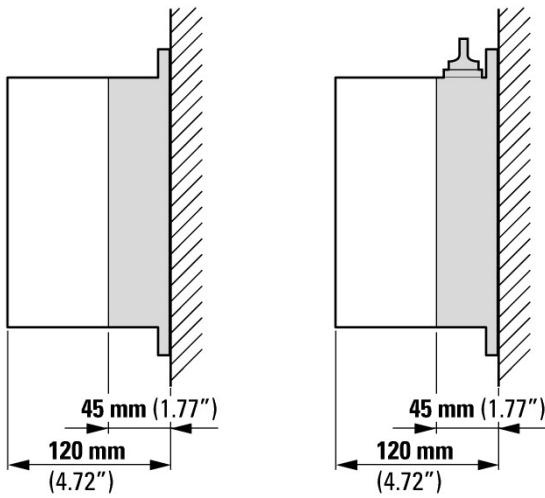
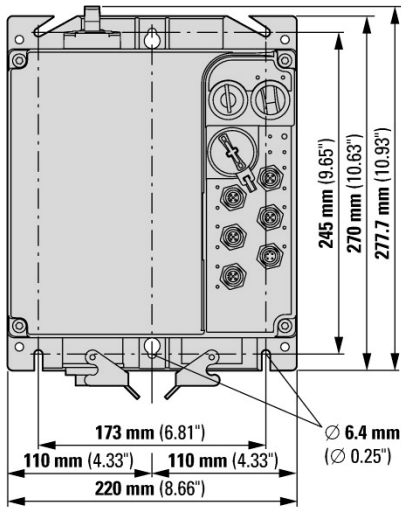
Description	Length [m]	For use with	Typ. Article no.	Std. pack	Instructions
Power supply at flat cable RA-C1					
Flat cable for 400 V AC/24 V DC decentralized power supply or AS-Interface					
	halogen free, 7 x 4 mm ²	RA-C1...	RA-C1-7X4HF 230860	100 lfm	Paint film contaminant/ silicon-free
Power connection cable for connecting the device with the 400 V AC flexible busbar junction					
	with power plug and plug for flexible busbar junction, halogen-free, 5 x 1.5 mm ²	1.5	RAM05 RASP5 RA-C1-PLF	RA-C3/C1-1.5HF 290210	1 Off -
	with HAN Q4/2 power plug and plug for flexible busbar junction, halogen free, 5 x 1,5 mm ²	1.5	RAM05 RASP5 RA-C1-PLF	RA-Q4/C1-1M5 198283	1 Off -
Flexible busbar junction 400 V AC/24 V DC Connection socket for power connection cable					
	Insulation piercing terminals, terminal socket with lock mechanism		RA-C1-7X4HF RA-C3/C1-1.5HF	RA-C1-PLF 290188	5 Off -
Protection cover for protecting the 400 V AC/24 V DC flexible busbar junction					
	-		RA-C1-PLF	RA-C1-COV 254693	10 Off
Plug connector for 400 V AC/24 V DC flexible busbar junction					
	Plug insert with hood		RA-C1-PLF	RA-C1-VP-PLM 231574	5 Off Order cable gland V-M25 or V-M20 separately
Distributor module for feeding the 400-V-AC/24-V-DC of the ribbon cable with a round cable					
	Termination with piercing screws, 2 x VM25 and 2 x V-M20 knockout plates, connection module with spring-loaded terminals, connection of round cables up to 4 mm ²		RA-C1-7X4HF	RA-C1-AM-7 290214	5 Off Order cable gland V-M25 or V-M20 separately
Distributor module for the 400V AC feeding to the ribbon cable with a round cable					
	With 3 flexible busbar inputs and 2 round cable inputs Connection of round cables 4 mm ²		RA-C1-7X4HF	RA-C1-VM-7 264244	2 Off Order V-M25/V-M20 cable gland and RA-C1-DF bushing separately
Flexible busbar bushing for bushing for flat cable in distributor module or control cabinet					
	-		RA-C1-VM-7	RA-C1-DF 264243	10 Off -
Flexible busbars for fastening the ribbon cable					
	-		RA-C1-7X4HF	RA-C1-FIX 272086	100 Off One set with 100 clips
End-piece for terminating the ribbon cable					
	-		RA-C1-7X4HF	RA-C1-END1 290189	10 Off -
Tools					
	For cutting flat cable		RA-C1-7X4HF	RA-C1-CUT 254690	1 Off -

PowerXL Rapid Link 5 Accessories

Description	Length [m]	For use with	Typ. Article no.	Std. pack	Instructions
Power supply at round cable RA-C2					
Power connection cable for connecting the device with the round cable junction					
	with power plug and plug for round cable junction, halogen-free, 5 x 1.5 mm ²	1.5	RAM05 RASP5 RA-C2-S1-4	RA-C3/C2-1,5HF 290211	1 Off -
	with HAN Q4/2 power plug and plug for round cable junction, halogen free, 5 x 1.5 mm ²	1.5	RAM05 RASP5 RA-C2-S1-4	RA-Q4/C2-1M5 198284	1 Off -
Round cable junction Connection socket for power connection cable					
	for 7 x 2.5/4 mm ² , 400 V AC and 24 V DC, termination with insulation piercing technology, cable fixing with metal screws, pre-wired socket insert, suitable for cable outer diameters 10 - 13 mm		RA-C3/C2-1,5HF	RA-C2-S1-4 257830	1 Off Equipment supplied: 1 pairs of gaskets for these cable diameters, 1 lock mechanism
Blanking plug for closing the last round cable junction in the power line					
			RA-C2-S1-4	RA-C2-SBL 265357	10 Off One set with 10 blanking plugs
Power supply at round cable RA-C4					
Round cable junction Connection socket for power cables from 2.5 - 6 mm ²					
	T junction via spring-cage terminal, 1.5 to 6 mm ² and/or plug connection of 0.5 - 4 mm ² , Enclosure IP65		RA-C4-PPB/ C3-1M5 RA-C4-X/ C3-1M5	RA-C4-PB65 116905	10 Off Enclosure opening gaskets are not included as standard
Blanking plug for closing off unused housing openings					
	Enclosure seal, closed, EPDM, silicon free and halogen free, IP65		RA-C4-PB65	RA-C4-D0 116960	10 Off One set with 10 blanking plugs
Gasket Slotted enclosure bushing seal					
	for Ø 11 - 13 mm EPDM round cable, silicon free and halogen free, IP65		RA-C4-PB65	RA-C4-D13 116907	10 Off -
	for Ø 13 - 15 mm EPDM round cable, silicon free and halogen free, IP65		RA-C4-PB65	RA-C4-D15 116908	10 Off
	for Ø 15 - 17 mm EPDM round cable, silicon free and halogen free, IP65		RA-C4-PB65	RA-C4-D17 116909	10 Off
Power connection cable for connecting the device with the round cable junction					
	Cable 5 x 1.5 mm ² , halogen-free, with RA-C4-PPB plug for round cable junction, power plug and gasket IP65	1.5	RAM05 RASP5 RA-C4-PB65	RA-C4-PPB/ C3-1M5 116962	1 Off -
Power connection cable for user assembly for connecting the device with the round cable junction					
	Cable 5 x 1.5 mm ² halogen free, with ferrules, power plug and IP65 gasket	1.5	RAM05 RASP5 RA-C4-PB65	RA-C4-X/ C3-1M5 116961	1 Off -

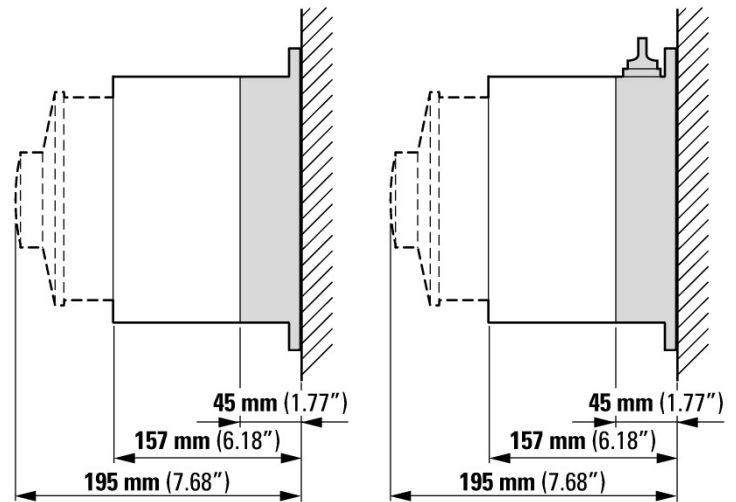
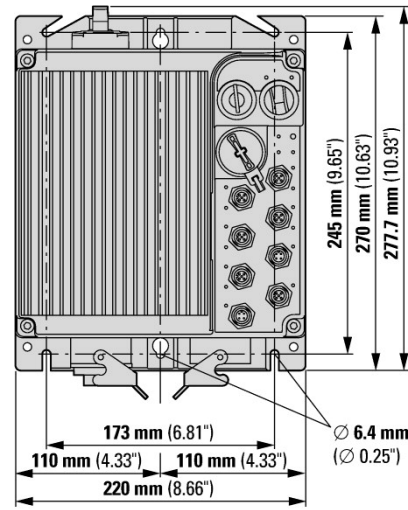
RAMO5

Drawing



RASP5

Drawing



Weight

Type	[kg]	[lbs]
RAMO5-xx0xxx-xxx0xx	1.63	3.59
RAMO5-xx1xxx-xxx0xx	1.64	3.62
RAMO5-xx0xxx-xxxRxx	1.8	3.97
RAMO5-xx1xxx-xxxRxx	1.81	3.99

Degree of protection

IP65 / NEMA12

Weight

Type	[kg]	[lbs]
RASP5-...-xxx0xx0xx	3.42	7.54
RASP5-...-xxxRxx1xx	3.78	8.33
RASP5-...-xxx1xxxx1...	3.43	7.56

Degree of protection

IP65 / NEMA12

Eaton's goal is to provide reliable, efficient and safe power when it is most needed. Eaton's experts have extensive expertise in the field of energy management in a wide variety of industries, ensuring customer-specific, integrated solutions to meet the most demanding requirements of customers.

We are focused on always finding the right solution for every application. Decision-makers expect more than just innovative products. Companies turn to Eaton because we always place individual support and the success of our customers first. For more information visit **Eaton.com**.

Eaton.com/contacts

Eaton.com/aftersales