DATASHEET - P3-100/IVS-RT

On-Off switch, P3, 100 A, service distribution board mounting, 3 pole, Emergency switching off function, with red thumb grip and yellow front plate, Lockable in the 0 (Off) position



Part no.

P3-100/IVS-RT 086185

Product name Product longing Cartor Minimum Product longing Cartor Minimum Product longing Product longing Cartor Minim Longing Cartor Minimum Product longing C	General specifications	
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Product weight L288 klagaan Dertifications UL UL UL UL UL Dertifications UL UL UL	Product height	90 millimetre
Product Tradename Image: Section	Product width	90 millimetre
Product Tradename Pr	Product weight	0.288 kilogram
Product Type On-Off switch Product Sub Type None Catalog Notes Rated Short-time Withstand Current (Icw) for a time of 1 second Features & Functions Image: State Short-time Withstand Current (Icw) for a time of 1 second Features & Functions Image: State Short-time Withstand Current (Icw) for a time of 1 second Features & Functions Image: State Short-time Withstand Current (Icw) for a time of 1 second Features & Functions Image: State Short-time Withstand Current (Icw) for a time of 1 second Features & Functions Image: State Short-time Withstand Current (Icw) for a time of 1 second Functions Image: State Short-time Withstand Current (Icw) for a time of 1 second Functions Image: State Short-time Withstand Current (Icw) for a time of 1 second Number of poles Image: State Short-time Withstand Current (Image: Short-time Withstand Current (Image: Short-time Withstand Young of Interction Accessories Image: Short-time Vithstand Young of Parations Mounting position Image: Short-time Vithstand Young Of Parations Mounting position Image: Short-time Vithstand Young Of Parations Short-time Vithstand Young Of Image: Short-time Vithstand Young Of Image: Short (Image: Short-time Vithstand Young Of Image: Short Ho	Certifications	UL Category Control No.: NLRV CSA-C22.2 No. 60947-4-1-14 IEC/EN 60947 CSA VDE 0660 UL File No.: E36332 IEC/EN 60204 CSA-C22.2 No. 94 CSA-C22.2 No. 94 CSA File No.: 012528 UL 60947-4-1 CSA Class No.: 3211-05 IEC/EN 60947-3 CE CSA
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Ambient operating temperature - min -25 °C		Distribution board installation
Ambient operating temperature - min -25 °C	Climatic environmental conditions	
		-25 °C
	Ambient operating temperature - max	50 °C

Ambient operating temperature (enclosed) - min	-25 °C
Ambient operating temperature (enclosed) - max	40 °C
Climatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Terminal capacities	
Terminal capacity	2 x (1.5 - 6) mm ² , flexible with ferrules to DIN 46228 2 x (2.5 - 10) mm ² , solid or stranded 1 x (2.5 - 35) mm ² , solid or stranded 1 x (1.5 - 25) mm ² , flexible with ferrules to DIN 46228 14 - 2 AWG, solid or flexible with ferrule
Screw size	M5, Terminal screw
Tightening torque	26.5 lb-in, Screw terminals 3 Nm, Screw terminals
Electrical rating	
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)	760 A
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	740 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	880 A
Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)	520 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	71 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	71 A
Rated operational current (Ie) at AC-3, 500 V	65 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	23.8 A
Rated operational current (Ie) at AC-21, 440 V	100 A
Rated operational current (Ie) at AC-23A, 230 V	100 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V	100 A
Rated operational current (Ie) at AC-23A, 500 V	96 A
Rated operational current (Ie) at AC-23A, 690 V	68 A
Rated operational current (Ie) at DC-1, load-break switches I/r = 1 ms	100 A
Rated operational current (Ie) at DC-23A, 24 V	50 A
Rated operational current (Ie) at DC-23A, 48 V	50 A
Rated operational current (Ie) at DC-23A, 60 V	50 A
Rated operational current (Ie) at DC-23A, 120 V	25 A
Rated operational power at AC-3, 380/400 V, 50 Hz	37 kW
Rated operational power at AC-3, 415 V, 50 Hz	37 kW
Rated operational power at AC-3, 500 V, 50 Hz	45 kW
Rated operational power at AC-3, 690 V, 50 Hz	37 kW
Rated operational power at AC-23A, 220/230 V, 50 Hz	30 kW
Rated operational power at AC-23A, 400 V, 50 Hz	55 kW
Rated operational power at AC-23A, 500 V, 50 Hz	55 kW
Rated operational power at AC-23A, 690 V, 50 Hz	55 kW
Rated operational voltage (Ue) at AC - max	690 V
Rated uninterrupted current (Iu)	100 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
Short-circuit rating	
Rated conditional short-circuit current (Iq)	4 kA (Load side) 80 kA (Supply side)
Rated short-time withstand current (Icw)	2 kA
Short-circuit current rating (basic rating)	150A, max. Fuse, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA)
Short-circuit protection rating	100 A gG/gL, Fuse, Contacts
Switching capacity	
Load rating	2 x l# (with intermittent operation class 12, 25 % duty factor) 1.6 x l# (with intermittent operation class 12, 40 % duty factor) 1.3 x l# (with intermittent operation class 12, 60 % duty factor)
Number of contacts in series at DC-23A, 24 V	1
Number of contacts in series at DC-23A, 48 V	2
Number of contacts in series at DC-23A, 60 V	2
Number of contacts in series at DC-23A, 120 V	3

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Subbing spacehy (sensing constate, both dig) SPA Nakage construction (SUR SA) SPA Nakage construction (SUR SA)<	Switching capacity (main contacts, general use)	
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Action ratio Action ratio Action ratio Action ratio SiP Action ratio SiP Astigned mater power at 20200 V kell 1; blace SiP Astigned mater power at 20200 V kell 1; blace SiP Astigned mater power at 20200 V kell 1; blace SiP Astigned mater power at 20200 V kell 1; blace SiP Astigned mater power at 20200 V kell 1; blace SiP Astigned mater power at 20200 V kell 1; blace SiP Astigned mater power at 20200 V kell 1; blace SiP Astigned mater power at 20200 V kell 1; blace SiP Astigned mater power at 20200 V kell 1; blace SiP Astigned mater power at 20200 V kell 1; blace SiP Astigned mater power at 20200 V kell 1; blace SiP Astigned mater power at 20200 V kell 1; blace SiP Astigned mater power at 20200 V kell 1; blace SiP Astigned mater power at 20200 V kell 1; blace SiP Astigned mater power at 20200 V kell 1; blace SiP Astigned mater power at 20200 V kell 1; blace SiP Astigned mater power at 20200 V kell 1; blace SiP Astigned mater power at	Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	950 A
Assigner maar paser at 12020 (k 10 k), 1-place 51P Assigner motor gover at 20208 (k 10 k), 1-place 104P Assigner motor gover at 20208 (k 10 k), 1-place 154P Assigner motor gover at 20208 (k 10 k), 1-place 154P Assigner motor gover at 20208 (k 10 k), 2-place 154P Assigner motor gover at 20208 (k 10 k), 2-place 154P Assigner motor gover at 20208 (k 10 k), 2-place 164P Assigner motor gover at 20208 (k 10 k), 2-place 164P Assigner motor gover at 20208 (k 10 k), 2-place 164P Assigner motor gover at 20208 (k 10 k), 2-place 164P Assigner motor gover at 20208 (k 10 k), 2-place 164P Control circuit reliability 164P Number of multilary contexts (homgin core contexts) 0 Number of multilary contexts (homgin core contexts) 164P Astautor cafler 164 Red dissipation, coursent-dependent Pvid 164 Bact dissipation, no-arrent-dependent Pvid 164 1622 Corronic on spacefield heat dissipation (h) 164 1623 String in the states of insuitang materials is romain heat dissipation, in the states of insuitang materials is romain heat dissipation, in the states o	Voltage per contact pair in series	60 V
Assign encor power at 20209 V. 50 Pi, 1 phase 10 PP Assign encor power at 20209 V. 50 Pi, 2 phase 20 PP Assigned encor power at 20209 V. 50 Pi, 2 phase 20 PP Assigned encor power at 20209 V. 50 Pi, 2 phase 20 PP Assigned encor power at 20209 V. 50 Pi, 2 phase 20 PP Assigned encor power at 20209 V. 50 Pi, 2 phase 20 PP Control relationly 1 nalue per 100.00 excitcing operators atsisticicly decimined, at 24 V D, 10 Assigned encor power at 20209 V. 50 Pi, 2 phase 0 Control relationly 1 nalue per 100.00 excitcing operators atsisticicly decimined, at 24 V D, 10 Number of ausating contracts (normally clease contracts) 0 Number of ausating contracts (normally clease contracts) 0 Actuator 0 Reat decoder contract dependent Pvd 0 Particitation 0 Reat despende contract dependent Pvd 0 Number of ausating contracts dependent Pvd 0 Reat despende contract dependent Pvd 0 Reat despende contract dependent Pvd 0 Reat despende contract dependent Pvd 0 Reat despende contreat despendent Pvd 0 <td>Motor rating</td> <td></td>	Motor rating	
Assigned mater power at 200200 VG BHz, 1-plase 2 HP Assigned mater power at 200200 VG BHz, 1-plase 14 HP Assigned mater power at 400400 VG BHz, 3-plase 2 HP Assigned mater power at 400400 VG BHz, 3-plase 2 HP Assigned mater power at 400400 VG BHz, 3-plase 2 HP Assigned mater power at 400400 VG BHz, 3-plase 2 HP Assigned mater power at 400400 VG BHz, 3-plase 2 HP Assigned mater power at 400400 VG BHz, 3-plase 2 HP Assigned mater power at 400400 VG BHz, 3-plase 2 HP Assigned mater power at 400400 VG BHz, 3-plase 2 HP Assigned mater power at 400400 VG BHz, 3-plase 2 HP Assigned mater power at 400400 VG BHz, 3-plase 2 HP Assigned mater power at 400400 VG BHz, 3-plase 2 HP Assigned mater power at 400400 VG BHz, 3-plase 2 HP Assigned mater power at 400400 VG BHz, 3-plase 2 HP Assigned mater power at 400400 VG BHz, 3-plase 2 HP Assigned mater power at 400400 VG BHz, 3-plase 2 HP Assigned mater power at 400400 VG BHz, 3-plase 2 HP Assigned mater power at 400400 VG BHz, 3-plase 2 HP Assigned mater power at 400	Assigned motor power at 115/120 V, 60 Hz, 1-phase	5 HP
Assign and a power at 230240 V, Bit V, 19 hase 19 P Assign and an power at 230240 V, Bit V, 3 phase 21 Pichover at 230240 V, Bit V, 3 phase Assign and an power at 230240 V, Bit V, 3 phase 19 P Contact 1 fairs err 10,000 wetching operations statistically determined, at 24 V D, 19 Assign and an power at 230240 V, Bit V, 3 phase 0 Contact indusing contacts (harmally classed contacts) 0 Number at axaliary contacts (harmally classed contacts) 0 Number at axaliary contacts (harmally classed contacts) 8 Actuator contacts (harmally classed contacts) 8 Actuator contacts (harmally classed contacts) 0 Actuator contacts (harmally classed contacts) 8 Actuator contacts (harmally classed contacts) 0 Actuator contacts (harmally classed contacts) 0 Actuator contacts (harmally classed contacts) 8 Actuator contacts (harmally classed contacts) 0 Read contact (harmally classed contacts) 0 <	Assigned motor power at 200/208 V, 60 Hz, 1-phase	10 HP
Assign motor power at 2302/00 V, 00 Hz, 3-phase 25 HP Assigned motor power at 537600 V, 00 Hz, 3-phase 26 HP Assigned motor power at 537600 V, 00 Hz, 3-phase 26 HP Control circuit reliability 1 halve per 100,000 switching operations statistically determined, at 24 V Dz, 19 m///////////////////////////////////	Assigned motor power at 200/208 V, 60 Hz, 3-phase	20 HP
Assigned mutor power at \$25480 V, 50 H, 3-phase 60 HP Assigned mutor power at \$25480 V, 50 H, 3-phase 75 HP Control circuit veloating mutor power at \$25480 V, 50 H, 3-phase 75 HP Control circuit veloating mutor power at \$25480 V, 50 H, 3-phase 75 HP Control circuit veloating mutor power at \$25480 V, 50 H, 3-phase 75 HP Sumber of auxiliary contacts (homally code contacts) 0 Number of auxiliary contacts (homally code contacts) 76 HP Actuator color Ref Actuator type Ref Design vorification 70 HP Epiginent that diapation, current-dependent Pvid 70 HP Heat diapation, current-dependent Pvid 70 HP Heat diapation projek, current-dependent Pvid 70 HP Heat diapation projek, current-dependent Pvid 70 HP Hout diapation projek, current-dependent Pvid 70 HP Heat diapation projek, current-dependent Pvid 104 HP Heat diapation projek, current-dependent Pvid 104 HP Hout diapation projek, current-dependent Pvid 104 HP Heat diapation projek, current-dependent Pvid 104 HP Heat diapation projek, current-dependent Pvid	Assigned motor power at 230/240 V, 60 Hz, 1-phase	15 HP
Asigned matter power at 575900 V, 00 H2 3-phase 75 HP Contracts 1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 Number of auxiliary contracts (homaply contracts) 0 Actuator color 0 Reet dissipation, corrent-dependent Pvid 0 Reet dissipation, one current-dependent Pvid 0 Reet dissipation, non-current-dependent Pvid 0 102.21 Worfication of freistatase of insulting nationals to normal heat 0 102.22 Worfication of resistance of insulting nationals to normal heat 0 102.22 Worfication of resistance of insulting national heat 0 102.24 Resistance to utrare worke (UV) rediation 0 102.24 Resistance in	Assigned motor power at 230/240 V, 60 Hz, 3-phase	25 HP
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Control circuit relability Isilitor per 100000 switching operations statistically dottermined, at 24 VD.10 Number of auxiliary contacts (hange-over contacts) 0 Number of auxiliary contacts (normally closed contacts) 0 Actuator of auxiliary contacts (normally closed contacts) 0 Actuator of auxiliary contacts (normally closed contacts) 6 Actuator color 8 Actuator type 8 Design verification 8 Equipment hear dissignation current-dependent Pvid 0 Heart dissignation corrent-dependent Pvid 0 Number of isolation of proping. current-dependent Pvid 0 Number of isolation concurrent-dependent Pvid 0 Number of isolation of nerver tor specified heart dispisol (nitr) 0 Number of isolation of isolatison of isolation of isolation of isolation of isolation	Assigned motor power at 575/600 V, 60 Hz, 3-phase	75 HP
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	10.12 Electromagnetic compatibility	
	10.13 Mechanical function	

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Switch disconnector (low volta	age) (EC000216)		
Electric engineering, automation, process control engineering / Low-voltage sv [AKF060018])	vitch technology / Off-	load s	witch, circuit breaker, control switch / Switch disconnector (ecl@ss13-27-37-14-03
Version as main switch			No
Version as maintenance-/service switch			No
Version as safety switch			No
Version as emergency stop installation			Yes
Version as reversing switch			No
Number of switches			1
Max. rated operation voltage Ue AC	V		690
Rated operating voltage	V		690 - 690
Rated permanent current lu	А		100
Rated permanent current at AC-23, 400 V	А		100
Rated permanent current at AC-21, 400 V	А		100
Rated operation power at AC-3, 400 V	kV	N	37
Rated short-time withstand current lcw	kA	4	2
Rated operation power at AC-23, 400 V	kV	N	55
Switching power at 400 V	kV	N	55
Conditioned rated short-circuit current Iq	kA	4	80
Number of poles			3
Number of auxiliary contacts as normally closed contact			0
Number of auxiliary contacts as normally open contact			0
Number of auxiliary contacts as change-over contact			0
Motor drive optional			No
Motor drive integrated			No
Voltage release optional			No
Device construction			Built-in device fixed built-in technique
Suitable for floor mounting			No
Suitable for front mounting 4-hole			No
Suitable for front mounting centre			No
Suitable for distribution board installation			Yes
Suitable for intermediate mounting			No
Colour control element			Red
Type of control element			Short thumb-grip
Interlockable			No
Type of electrical connection of main circuit			Screw connection
Nith pre-assembled cabling			No
Degree of protection (IP), front side			IP30
Degree of protection (NEMA)			Other
Width	mr	m	90
Height	mr	m	90
Depth	mr	m	90
Width in number of modular spacings			