SIEMENS

Data sheet 3RT7027-1AP00

Contactor AC-3 32A/15kW 400V W/O AC 230V 50Hz size S0, screw terminal

Figure similar

General technical data	
size of contactor	S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
● at AC in hot operating state per pole	2.7 W
● without load current share typical	2.21 W
type of calculation of power loss current-dependent	quadratic
insulation voltage rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
protection class IP	
● on the front	IP20
● of the terminal	IP20
shock resistance with sine pulse at AC	12.5 g / 5 ms, 7.8 g / 10 ms
Net Weight	0.35 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
● during operation	-10 ... +55 °C
● during storage	-25 ... +70 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
● at AC-3 rated value maximum	690 V
● at AC-3e rated value maximum	690 V
operational current	
● at AC-1 up to 690 V at ambient temperature 40 °C rated value	40 A
● at AC-3	
— at 400 V rated value	32 A
— at 690 V rated value	17 A
● at AC-3e	
— at 400 V rated value	32 A
— at 690 V rated value	17 A
operating power	
● at AC-3	

— at 230 V rated value	7.5 kW
— at 400 V rated value	15 kW
— at 690 V rated value	15 kW
● at AC-3e	
— at 400 V rated value	15 kW
— at 690 V rated value	15 kW
operating frequency	
● at AC-3 maximum	800 1/h
● at AC-3e maximum	800 1/h
● at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
● at 50 Hz rated value	230 V
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 ... 1.1
● at 60 Hz	0.85 ... 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	61 VA
● at 60 Hz	64 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.82
● at 60 Hz	0.72
apparent holding power of magnet coil at AC	
● at 50 Hz	8.4 VA
● at 60 Hz	8.4 VA
inductive power factor with the holding power of the coil	
● at 50 Hz	0.24
● at 60 Hz	0.24
closing power of magnet coil at DC	0.82 W
holding power of magnet coil at DC	0.24 W
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	0
number of NO contacts for auxiliary contacts instantaneous contact	0
operational current at AC-15	
● at 230 V rated value	6 A
● at 400 V rated value	3 A
● at 690 V rated value	1 A
operational current at DC-13 at 220 V rated value	0.3 A
contact reliability of auxiliary contacts	acceptability for PLC control (17 V, 5 mA)
Short-circuit protection	
design of the fuse link	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	gL/gG NH 3NA: 125 A
— with type of coordination 2 required	gL/gG NH 3NA: 50 A
● for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method side-by-side mounting	Yes
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
height	85.5 mm
width	45 mm
depth	91 mm
required spacing with side-by-side mounting at the side	0 mm
Connections/ Terminals	
type of electrical connection	

● for main current circuit	screw-type terminals
● for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	
● solid or stranded	2x (1 ... 2,5 mm²), 2x (2,5 ... 6 mm²)
● finely stranded with core end processing	2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²)
connectable conductor cross-section for main contacts finely stranded with core end processing	6 mm²
connectable conductor cross-section for auxiliary contacts finely stranded with core end processing	0.5 ... 2.5 mm²
type of connectable conductor cross-sections for auxiliary contacts	
● solid or stranded	2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
● finely stranded with core end processing	2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

Safety related data

product function mirror contact according to IEC 60947-4-1	Yes
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front

Approvals Certificates

Environment	General Product Approval				EMV
Environmental Confirmations	CCC	EAC	CE EG-Konf.	UKCA	RCM

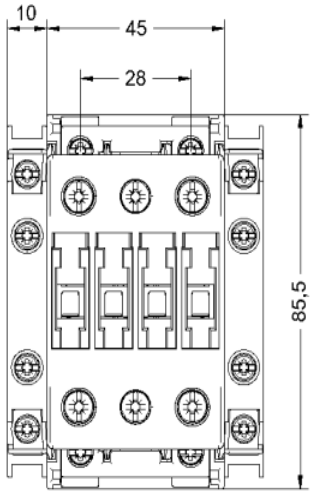
other

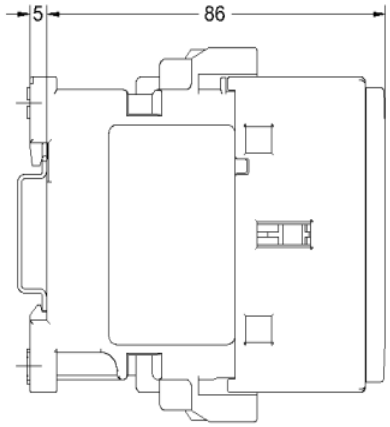
Confirmation

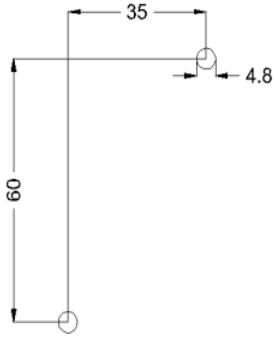
产品合格 QC PASS

Further information

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information for data generation and storage
https://support.industry.siemens.com/cs/ww/en/view/109995012
Information- and Downloadcenter (Catalogs, Brochures,…)
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT7027-1AP00
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RT7027-1AP00
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT7027-1AP00&lang=en
Cax online generator
https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT7027-1AP00
Characteristic curves
https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod__no>







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