## **SIEMENS**

Reference: 3RA2125-4AA17-1BB4

LOAD FEEDER FUSELESS DIRECT START, AC 400V, SZ S00 10...16A, DC 24V SCREW CONNECTION FOR RAIL-MOUNTING, TYPE OF COORDINATION 1, IQ = 150KA 1NO (CONTACTOR) 1NO +1NC (CIRCUIT BREAKER)



product brand name	SIRIUS
Product designation	non-fused load feeders 3RA2
Design of the product	direct starter
Manufacturer's article number	
of the supplied contactor	3RT2017-1BB41
of the supplied circuit-breakers	3RV2011-4AA15
of the supplied link module	3RA2921-1AA00
General technical data:	
Size of the circuit-breaker	50
Size of load feeder	50
Insulation voltage	
with degree of pollution 3 rated value	690 V
Surge voltage resistance rated value	6 kV
Protection class IP	
on the front	IP20
Shock resistance	
acc. to IEC 60068-2-27	6g / 11 ms
Type of assignment	2
Protection against electrical shock	finger-safe
Ambient conditions:	
Ambient temperature	

during storage	during operation	-20 +60 °C
during transport -50 +80 °C  Temperature compensation -20 +60 °C  Relative humidity during operation 10 %  Main circuit:  Number of poles for main current circuit 3  Adjustable pick-up value current of the current dependent overload release 11 16 A  Operating voltage rated value maximum 690 V  Operating frequency rated value 50 60 Hz  Operating current at AC-3		-50 +80 °C
Temperature compensation -20 +60 °C Relative humidity during operation 10 %  Main circuit:  Number of poles for main current circuit 3  Adjustable pick-up value current of the current-dependent overload release 690 V  at AC-3 retad value maximum 690 V  Operating frequency rated value 50 60 Hz  Operating current at AC-3 400 V rated value 7,500 W  Operating power 400 V rated value 7,500 W  Control circuit/ Control:  Control supply voltage at DC rated value 24 V  Holding power of magnet coil at DC 5,9 W  Auxiliary circuit:  Product extension Auxillary switch Yes  Protective and monitoring functions:  Tipi class CLASS 10  Design of the overload release themale (bimetallic)  UL/CSA ratings:  Full-load current (FLA) for three-phase AC motor at 480 V rated value 5 hp  - at 460/480 V rated value 10 hp  - at 575/600 V rated value 10 hp  Short-circuit protection		-50 +80 °C
Relative humidity during operation 10 %  Main circuit:  Number of poles for main current circuit 3  Adjustable pick-up value current of the current-dependent overload release 690 V  at Act avalue 690 V  Operating voltage 50 60 Hz  Operating current at AC-3  — at 400 V rated value 15.5 A  Operating power at AC-3 at 40 V rated value 7 500 W  Control circuit / Control:  Control supply voltage at DC rated value 24 V  Holding power of magnet coil at DC 5.9 W  Auxiliary circuit:  Product extension Auxiliary switch 7 × 9s  Protective and monitoring functions:  Full-load current (FLA) for three-phase AC motor at 480 V rated value 14 A  Yielded mechanical performance (hp) for three-phase AC motor - at 220/230 V rated value 5 hp.  - at 460/480 V rated value 10 hp  - at 575/600 V rated value 10 hp		
Main circuit:  Number of poles for main current circuit 3  Adjustable pick-up value current of the current-dependent overload release 11 16 A  Operating voltage rated value 690 V  at AC-3 rated value maximum 690 V  Operating frequency rated value 50 60 Hz  Operating current at AC-3		
Number of poles for main current circuit  Adjustable pick-up value current of the current-dependent overload release  Operating voltage rated value  at AC-3 rated value maximum  Operating frequency rated value  at AC-3  — at 400 V rated value  at AC-3  — at 400 V rated value  To 50 W  Control supply voltage at DC rated value  24 V  Holding power of magnet coil at DC  Auxillary circuit:  Product extension Auxilliary switch Protective and monitoring functions:  Trip class  CLASS 10  Design of the overload release  UL/CSA ratings:  Full-load current (FLA) for three-phase AC motor  at 480 V rated value  14 A  Yielded mechanical performance [hp]  for three-phase AC motor  — at 220/230 V rated value  10 hp  — at 4575/600 V rated value  10 hp  Short-circuit protection		10 /0
Adjustable pick-up value current of the current-dependent overload release  Operating voltage rated value at AC-3 rated value maximum 690 V  Operating frequency rated value 50 60 Hz  Operating current at AC-3 - at 400 V rated value 15.5 A  Operating power at AC-3 - at 400 V rated value 7 500 W  Control circuit/ Control:  Control supply voltage at DC rated value 24 V  Holding power of magnet coil at DC  Auxiliary circuit:  Product extension Auxiliary switch Yes  Protective and monitoring functions:  Tip class CLASS 10  Design of the overload release thermal (bimetallic)  UL/CSA ratings:  Full-load current (FLA) for three-phase AC motor at 480 V rated value 14 A  Yielded mechanical performance [hp] for three-phase AC motor - at 220/230 V rated value 10 hp - at 575/600 V rated value 10 hp  Short-circuit protection		3
operating voltage rated value 690 V  operating frequency rated value 50 60 Hz  Operating frequency rated value 50 60 Hz  Operating current at AC-3 — at 400 V rated value 7500 W  Operating power at AC-3 — at 400 V rated value 7500 W  Control circuit/ Control:  Control supply voltage at DC rated value 24 V  Holding power of magnet coil at DC 5.9 W  Auxiliary circuit:  Product extension Auxiliary switch Yes  Protective and monitoring functions:  Trip class CLASS 10  Design of the overload release thermal (bimetallic)  UL/CSA ratings:  Full-load current (FLA) for three-phase AC motor at 480 V rated value 14 A  Yielded mechanical performance [hp]  for three-phase AC motor — at 220/230 V rated value 5 hp — at 460/480 V rated value 10 hp — at 575/600 V rated value 10 hp  Short-circuit protection	Adjustable pick-up value current of the current-	
rated value 690 V  at AC-3 rated value maximum 690 V  Operating frequency rated value 50 60 Hz  Operating frequency rated value 15.5 A  — at 400 V rated value 15.5 A  Operating power at AC-3  — at 400 V rated value 7 500 W  Control circuit/ Control:  Control supply voltage at DC 24 V  Holding power of magnet coil at DC 5.9 W  Auxiliary circuit:  Product extension Auxiliary switch Yes  Protective and monitoring functions:  Tip class CLASS 10  Design of the overload release thermal (bimetallic)  UL/CSA ratings:  Full-load current (FLA) for three-phase AC motor at 480 V rated value 14 A  Yielded mechanical performance [hp]  for three-phase AC motor — at 220/230 V rated value 5 hp — at 460/480 V rated value 10 hp — at 575/600 V rated value 10 hp  Short-circuit protection		11107
A AC-3 rated value maximum  Operating frequency rated value  50 60 Hz  Operating current  at AC-3  — at 400 V rated value  Operating power  at AC-3  — at 400 V rated value  7 500 W  Control circuit/ Control:  Control supply voltage at DC  rated value  24 V  Holding power of magnet coil at DC  5.9 W  Auxiliary circuit:  Product extension Auxiliary switch  Yes  Protective and monitoring functions:  Trip class  CLASS 10  Design of the overload release  thermal (bimetallic)  UL/CSA ratings:  Full-load current (FLA) for three-phase AC motor  at 480 V rated value  14 A  Yielded mechanical performance [hp]  for three-phase AC motor  — at 220/230 V rated value  5 hp  — at 460/480 V rated value  10 hp  Short-circuit protection	Operating voltage	
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operating current at AC-3  — at 400 V rated value 15.5 A  Operating power at AC-3  — at 400 V rated value 7 500 W  Control circuit/ Control:  Control supply voltage at DC rated value 24 V  Holding power of magnet coil at DC 5.9 W  Auxiliary circuit:  Product extension Auxiliary switch Yes  Protective and monitoring functions:  Trip class CLASS 10  Design of the overload release thermal (bimetallic)  UL/CSA ratings:  Full-load current (FLA) for three-phase AC motor at 480 V rated value 14 A  Yielded mechanical performance [hp] for three-phase AC motor — at 220/230 V rated value 5 hp — at 460/480 V rated value 10 hp  Short-circuit protection	at AC-3 rated value maximum	690 V
at AC-3  — at 400 V rated value  Doerating power at AC-3  — at 400 V rated value  7 500 W  Control circuit/ Control:  Control supply voltage at DC  rated value  24 V  Holding power of magnet coil at DC  Auxillary circuit:  Product extension Auxiliary switch  Protective and monitoring functions:  Trip class  CLASS 10  Design of the overload release  thermal (bimetallic)  UL/CSA ratings:  Full-load current (FLA) for three-phase AC motor at 480 V rated value  14 A  Yielded mechanical performance [hp]  for three-phase AC motor — at 220/230 V rated value  5 hp — at 460/480 V rated value  10 hp  Short-circuit protection	Operating frequency rated value	50 60 Hz
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Operating power at AC-3  — at 400 V rated value  Control circuit/ Control:  Control supply voltage at DC rated value  24 V  Holding power of magnet coil at DC  Auxiliary circuit:  Product extension Auxiliary switch  Protective and monitoring functions:  Trip class  CLASS 10  Design of the overload release  thermal (bimetallic)  UL/CSA ratings:  Full-load current (FLA) for three-phase AC motor at 480 V rated value  14 A  Yielded mechanical performance [hp]  for three-phase AC motor — at 220/230 V rated value — at 575/600 V rated value  10 hp  Short-circuit protection	at AC-3	
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Control supply voltage at DC  rated value 24 V  Holding power of magnet coil at DC 5.9 W  Auxiliary circuit:  Product extension Auxiliary switch Yes  Protective and monitoring functions:  Trip class CLASS 10  Design of the overload release thermal (bimetallic)  UL/CSA ratings:  Full-load current (FLA) for three-phase AC motor at 480 V rated value 14 A  Vielded mechanical performance [hp]  for three-phase AC motor  — at 220/230 V rated value 5 hp  — at 460/480 V rated value 10 hp  Short-circuit protection	— at 400 V rated value	7 500 W
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Auxiliary circuit:  Product extension Auxiliary switch  Protective and monitoring functions:  Trip class  CLASS 10  Design of the overload release  thermal (bimetallic)  UL/CSA ratings:  Full-load current (FLA) for three-phase AC motor at 480 V rated value  14 A  Yielded mechanical performance [hp]  for three-phase AC motor  — at 220/230 V rated value  5 hp  — at 460/480 V rated value  10 hp  Short-circuit protection	rated value	24 V
Product extension Auxiliary switch  Protective and monitoring functions:  Trip class  CLASS 10  Design of the overload release  thermal (bimetallic)  UL/CSA ratings:  Full-load current (FLA) for three-phase AC motor  at 480 V rated value  14 A  Yielded mechanical performance [hp]  for three-phase AC motor  — at 220/230 V rated value  5 hp  — at 460/480 V rated value  10 hp  Short-circuit protection	Holding power of magnet coil at DC	5.9 W
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at 480 V rated value  Yielded mechanical performance [hp]  for three-phase AC motor  — at 220/230 V rated value  5 hp  — at 460/480 V rated value  10 hp  — at 575/600 V rated value  10 hp	UL/CSA ratings:	
Yielded mechanical performance [hp]  for three-phase AC motor  — at 220/230 V rated value 5 hp  — at 460/480 V rated value 10 hp  — at 575/600 V rated value 10 hp  Short-circuit protection	Full-load current (FLA) for three-phase AC motor	
for three-phase AC motor  — at 220/230 V rated value 5 hp  — at 460/480 V rated value 10 hp  — at 575/600 V rated value 10 hp  Short-circuit protection	at 480 V rated value	14 A
<ul> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> <li>bhort-circuit protection</li> </ul>	Yielded mechanical performance [hp]	
— at 460/480 V rated value 10 hp  — at 575/600 V rated value 10 hp  Short-circuit protection	for three-phase AC motor	
— at 575/600 V rated value 10 hp  Short-circuit protection	— at 220/230 V rated value	5 hp
Short-circuit protection	— at 460/480 V rated value	10 hp
	— at 575/600 V rated value	10 hp
Product function	Short-circuit protection	
	Product function	

Short circuit protection	Yes
Design of the short-circuit trip	magnetic
Conditional short-circuit current (Iq)	
at 400 V acc. to IEC 60947-4-1 rated value	153 000 A
Installation/ mounting/ dimensions:	
Mounting position	vertical
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail
Height	193.1 mm
Witd>	45 mm
Depth	97.1 mm
Required spacing	
for grounded parts	
— forwards	20 mm
— Backwards	0 mm
— upwards	50 mm
— at the side	20 mm
— downwards	10 mm
for live parts	
— forwards	20 mm
— Backwards	0 mm
— upwards	50 mm
— downwards	10 mm
— at the side	20 mm
Connections/Terminals:	
Type of electrical connection	
for main current circuit	screw-type terminals
Safety related data:	
B10 value	
with high demand rate acc. to SN 31920	1 000 000
Proportion of dangerous failures	
with high demand rate acc. to SN 31920	73 %