SIEMENS

Data sheet 3RT2516-2AP60



Power contactor, AC-3 9 A, 4 kW / 400 V 2 NO + 2 NC 220 V DC, 50 Hz/240 V, 60 Hz 4-pole Size S00 Spring-type terminals

product brand name	SIRIUS
product designation	contactor
product type designation	3RT25
General technical data	
size of contactor	S00
product extension	
 function module for communication 	No
auxiliary switch	Yes
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
of auxiliary circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (switching cycles)	
 of contactor typical 	30 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	4
number of NO contacts for main contacts	2

number of NC contacts for main contacts	2
operational current	
• at AC-1 up to 690 V	
— at ambient temperature 40 °C rated value	18 A
— at ambient temperature 40 °C rated value	16 A
• at AC-2 at AC-3 at 400 V	10 /4
— per NO contact rated value	9 A
per NC contact rated value	9 A
minimum cross-section in main circuit at maximum AC-1	2.5 mm²
rated value	2.5 11111
operational current	
at 1 current path at DC-1	
— at 24 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
with 2 current paths in series at DC-1	
— at 24 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
• at 1 current path at DC-3 at DC-5	
— at 24 V per NC contact rated value	16 A
at 24 V per NO contact rated value	16 A
— at 110 V per NC contact rated value	0.075 A
— at 110 V per NO contact rated value	0.15 A
at 220 V per NC contact rated value	0.375 A
— at 220 V per NO contact rated value	0.75 A
• with 2 current paths in series at DC-3 at DC-5	
at 24 V per NC contact rated value	16 A
— at 24 V per NO contact rated value	16 A
— at 110 V per NC contact rated value	0.175 A
— at 110 V per NO contact rated value	0.35 A
operating power at AC-2 at AC-3	
at 230 V per NC contact rated value	2.2 kW
at 230 V per NO contact rated value	2.2 kW
at 400 V per NC contact rated value	4 kW
at 400 V per NO contact rated value	4 kW
short-time withstand current in cold operating state	
up to 40 °C	
limited to 1 s switching at zero current maximum	110 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	110 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	86 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	66 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	54 A; Use minimum cross-section acc. to AC-1 rated value
power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor	0.7 W
no-load switching frequency	
at AC	10 000 1/h
• at DC	10 000 1/h
operating frequency at AC-1 maximum	1 000 1/h
Control circuit/ Control	1 000 1/11
type of voltage of the control supply voltage	AC
control supply voltage at AC	7.0
• at 50 Hz rated value	220 V
at 60 Hz rated value at 60 Hz rated value	240 V
operating range factor control supply voltage rated	2.0
value of magnet coil at AC	
● at 50 Hz	0.8 1.1
at 60 Hz apparent pick-up power of magnet coil at AC	0.8 1.1 32 VA

at 60 Hz apparent holding power of magnet coil at AC at 60 Hz apparent holding power of magnet coil at AC at 60 Hz at 6		
Inductive power factor with closing power of the coil at 68 9Hz at 68 Hz a	● at 50 Hz	31.7 VA
a at 50 Hz apparent holding power of magnet coil at AC at 50 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz but 50 Hz at 50 Hz at 60 Hz but 50 Hz at 60 Hz but 60 Hz	● at 60 Hz	31.7 VA
e at 60 Hz	inductive power factor with closing power of the coil	0.8
apparent holding power of magnet coil at AC at 50 Hz at 60 Hz a	● at 50 Hz	0.77
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inductive power factor with the holding power of the coll	● at 50 Hz	4.8 VA
e at 50 Hz • at 60 Hz closing delay • at AC opening delay • at AC arcing time residual current of the electronics for control with signal cD • at AC at 230 V maximum permissible operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 48 V rated value • at 46 V rated value • at 46 V rated value • at 100 V rated value • at 250 V rated value • at 260 V rated value • at 260 V rated value • at 260 V rated value • at 60 V r	● at 60 Hz	4.8 VA
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residual current of the electronics for control with signal https://doi.org/10.2007.009.4 *at AC at 230 V maximum permissible *at Cat 230 V maximum permissible *at Cat 230 V contacts for auxiliary contacts number of NC contacts for auxiliary contacts operational current at AC-15 *at 230 V rated value *at 480 V rated value *at 48 V rated value *at 125 V rated value *at 125 V rated value *at 220 V rated value *at 600 V rated value *at 600 V rated value *at 48 V rated value *at 120 V rated value *at 100 V rated value *at 120 V rated value *at 1		
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at 60 V rated value at 110 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 600 V rated value contact reliability of auxiliary contacts I faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value for 3-phase AC motor at 460/480 V rated value for 3-phase AC motor at 460/480 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required gG: 35 A (690 V, 100 kA) fuse gG: 10 A fuse gG: 10 A fuse gG: 10 A fuse gG: 10 A fuse gG: 20A (690 V, 100 kA) fuse gG: 10 A fuse gG: 35 A (690 V, 100 kA) fuse gG: 35 A (6	 at 24 V rated value 	
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contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required 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 ##-180° rotation possible on the counting surface and backward by +/- 22.5° on vertical mounting surface and snap-on mounting onto 35 mm standard mounting rail	<u> </u>	·
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required 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 screw and snap-on mounting onto 35 mm standard mounting rail	·	·
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 — with type of coordination 1 required — with type of assignment 2 required ● for short-circuit protection of the auxiliary switch required 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 	_	
— with type of assignment 2 required • for short-circuit protection of the auxiliary switch required 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 screw and snap-on mounting onto 35 mm standard mounting rail	•	
for short-circuit protection of the auxiliary switch required 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 screw and snap-on mounting onto 35 mm standard mounting rail		,
required 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 screw and snap-on mounting onto 35 mm standard mounting rail		
mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface fastening method screw and snap-on mounting onto 35 mm standard mounting rail	required	fuse gG: 10 A
forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail		
	mounting position	
	fastening method	

side-by-side mounting	Yes	
height	70 mm	
width	45 mm	
depth	73 mm	
required spacing		
with side-by-side mounting		
— forwards	0 mm	
— backwards	0 mm	
— upwards	0 mm	
— downwards	0 mm	
— at the side	0 mm	
 for grounded parts 		
— forwards	0 mm	
— backwards	0 mm	
— upwards	0 mm	
— at the side	6 mm	
— downwards	0 mm	
for live parts		
— forwards	0 mm	
— backwards	0 mm	
— upwards	0 mm	
— downwards	0 mm	
— at the side	6 mm	
Connections/ Terminals		
type of electrical connection		
for main current circuit	spring-loaded terminals	
for auxiliary and control circuit	spring-loaded terminals	
at contactor for auxiliary contacts	Spring-type terminals	
of magnet coil	Spring-type terminals	
type of connectable conductor cross-sections	_ opining type terminals	
• for main contacts		
— solid	2x (0.5 4 mm²)	
— solid or stranded	2x (0,5 4 mm²)	
finely stranded with core end processing	2x (0.5 2.5 mm²)	
finely stranded without core end processing	2x (0.5 2.5 mm²)	
at AWG cables for main contacts	2x (20 12)	
type of connectable conductor cross-sections	ZX (20 12)	
for auxiliary contacts— solid	2x (0.5 4 mm²)	
— solid — solid or stranded	2x (0.5 4 mm²)	
	2x (0,5 4 IIIII ⁻) 2x (0.5 2.5 mm ²)	
 finely stranded with core end processing finely stranded without core end processing 		
at AWG cables for auxiliary contacts	2x (0.5 2.5 mm²) 2x (20 12)	
AWG number as coded connectable conductor cross section for main contacts	20 12	
Safety related data		
product function		
mirror contact according to IEC 60947-4-1	Yes; with 3RH29	
 positively driven operation according to IEC 60947- 	No	
5-1 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	
Certificates/ approvals	inigor sale, for vertical contact from the from	
General Product Approval		EMC





Confirmation







Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination Certificate



UK Declaration of Conformity Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping













other

Confirmation



Further information

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=3RT2516-2AP60

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2516-2AP60}$

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT2516-2AP60

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

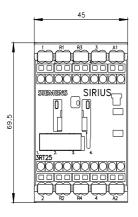
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2516-2AP60&lang=en

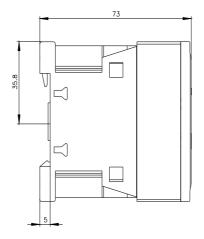
Characteristic: Tripping characteristics, I2t, Let-through current

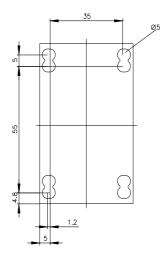
https://support.industry.siemens.com/cs/ww/en/ps/3RT2516-2AP60/char

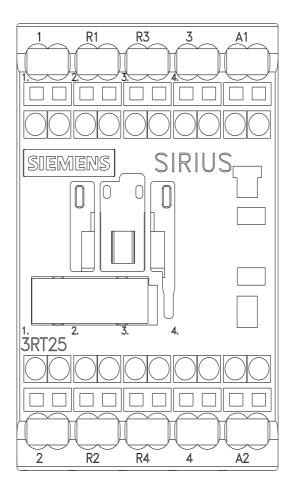
Further characteristics (e.g. electrical endurance, switching frequency)

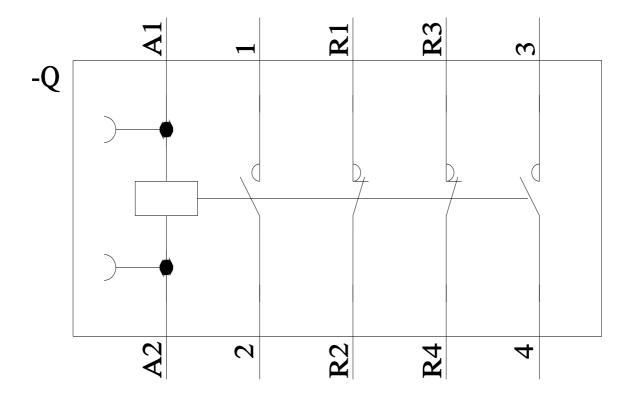
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2516-2AP60&objecttype=14&gridview=view1











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