

STAR-DELTA (WYE-D.) COMBINATION AC3:55KW/400V
230V AC 50/60 HZ SIZE S2,
SCREW CONNECTION ELECTR. AND MECH. INTERLOCK
3NO+3NC INTEGR.,



General technical data:

product brand name		SIRIUS
Product function		wye-delta combination
Size of contactor		S2
Protection class IP / on the front		IP20
Degree of pollution		3
Insulation voltage / with degree of pollution 3 / Rated value	V	690
Installation altitude / at height above sea level / maximum	m	2,000
Ambient temperature / during storage	°C	-55 ... +80
Ambient temperature / during operation	°C	-25 ... +60
Surge voltage resistance / Rated value	kV	6
Active power loss / per conductor / typical	W	3.8
Manufacturer article number <ul style="list-style-type: none"> • of the supplied function module for wye-delta circuits • 1 / of the supplied contactor • 2 / of the supplied contactor • 3 / of the supplied contactor • of the supplied RS assembly kit 		3RA2816-0EW20 3RT2037-1AL20 3RT2037-1AL20 3RT2035-1AL20 3RA2934-2BB1
Mechanical service life (switching cycles) <ul style="list-style-type: none"> • of the contactor / typical 		10,000,000

- of the contactor with added auxiliary switch block / typical

10,000,000

Communication/ Protocol:

Product function

- Bus communication
- Control circuit interface with IO link

No

No

Protocol / is supported / AS-interface protocol

No

Main circuit:

Number of poles / for main current circuit

3

Number of NC contacts / for main contacts

0

Number of NO contacts / for main contacts

3

Operating voltage / at AC-3 / Rated value / maximum

V

690

Operating current

- at AC-1 / at 400 V
 - at ambient temperature 40 °C / Rated value
 - at ambient temperature 60 °C / Rated value
- at AC-2 / at 400 V / Rated value
- at AC-3 / at 400 V / Rated value

A

80

A

70

A

115

A

115

Operating power

- at AC-2 / at 400 V / Rated value
- at AC-3
 - at 400 V / Rated value
- at AC-4 / at 400 V / Rated value

kW

55

kW

55

kW

48.5

No-load switching frequency

1/h

1,500

Operating frequency

- at AC-1 / maximum
- at AC-2 / maximum
- at AC-3 / maximum
- at AC-4 / maximum

1/h

800

1/h

400

1/h

700

1/h

200

Control circuit/ Control:

Type of voltage / of the control supply voltage

AC

Control supply voltage / 1

- with AC / at 50 Hz / Rated value
- with AC / at 60 Hz / Rated value

V

230

V

230

Operating range factor control supply voltage rated value / of the magnet coil

- with AC / at 50 Hz
- with AC / at 60 Hz

0.8 ... 1.1

0.85 ... 1.1

Apparent pick-up power / of the magnet coil / with AC

• at 50 Hz	V·A	210
• at 60 Hz	V·A	188
Inductive power factor / with closing power of the coil		
• at 50 Hz		0.69
• at 60 Hz		0.65
Apparent holding power / of the magnet coil / with AC		
• at 50 Hz	V·A	17.2
• at 60 Hz	V·A	16.5
Inductive power factor / with the holding power of the coil		
• at 50 Hz		0.36
• at 60 Hz		0.39

Auxiliary circuit:		
Product expansion / Auxiliary switch		No
Contact reliability / of the auxiliary contacts		< 1 error per 100 million operating cycles
Number of NC contacts / for auxiliary contacts		
• instantaneous contact		3
• lagging switching		0
Number of NO contacts / for auxiliary contacts		
• instantaneous contact		3
• leading contact		0
Operating current / of the auxiliary contacts		
• at AC-12 / maximum	A	10
• at AC-15		
• at 230 V	A	6
• at 400 V	A	3
• at DC-12		
• at 48 V	A	6
• at 60 V	A	6
• at 110 V	A	3
• at 220 V	A	1
• at DC-13		
• at 24 V	A	10
• at 48 V	A	2
• at 60 V	A	2
• at 110 V	A	1
• at 220 V	A	0.3

Short-circuit:		
Design of the fuse link		

- 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
Mounting type		screw fixing
Width	mm	177.5
Height	mm	142
Depth	mm	223

Connections/ terminals:

Design of the electrical connection		
• for main current circuit		screw-type terminals
• for auxiliary and control current circuit		screw-type terminals
Type of connectable conductor cross-section		
• for main contacts		
• single or multi-stranded		2x (1 ... 35 mm²), 1x (1 ... 50 mm²)
• finely stranded / with core end processing		2x (1 ... 25 mm²), 1x (1 ... 35 mm²)
• for AWG conductors / for main contacts		2x (18 ... 2), 1x (18 ... 1)
Type of connectable conductor cross-section		
• for auxiliary contacts		
• single or multi-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)
• for AWG conductors / for auxiliary contacts		2x (20 ... 16), 2x (18 ... 14)

Certificates/ approvals:

Declaration of Conformity



UL/CSA ratings:

Contact rating / of the auxiliary contacts / acc. to UL		A600 / Q600
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Safety related data:

B10 value / with high demand rate		
• acc. to SN 31920		1,000,000
Failure rate [FIT] / with low demand rate		
• acc. to SN 31920	FIT	100
Proportion of dangerous failures		
• with low demand rate / acc. to SN 31920	%	40

- with high demand rate / acc. to SN 31920

% 73

T1 value / for proof test interval or service life

- acc. to IEC 61508

a 20

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<http://www.siemens.com/industrymall>

Cax online generator

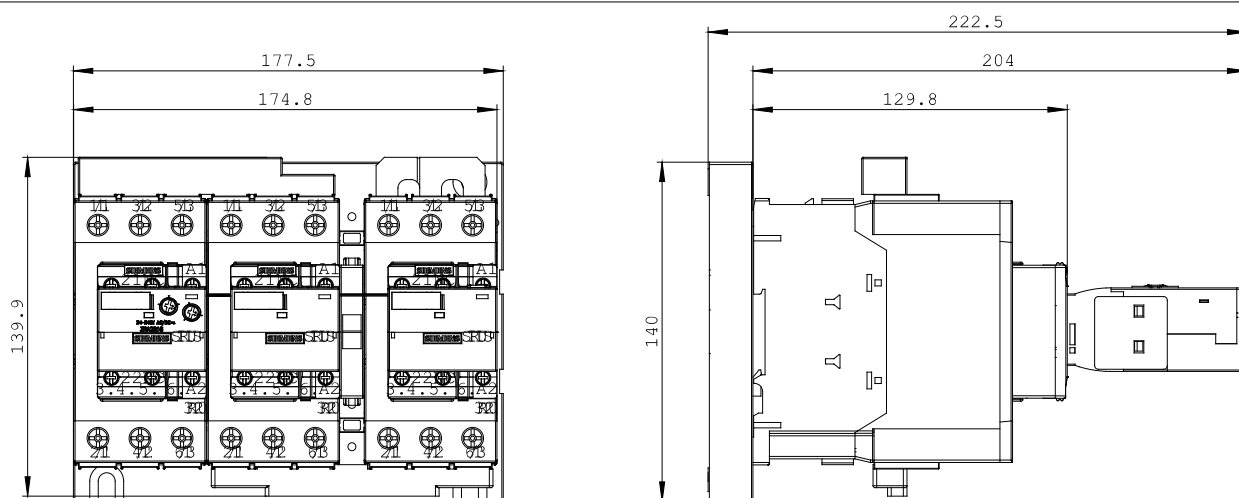
<http://www.siemens.com/cax>

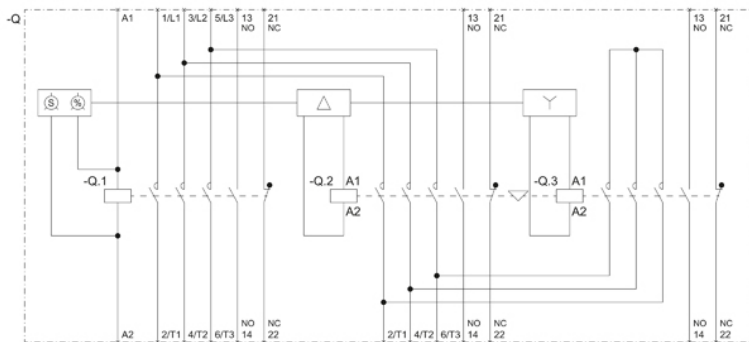
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RA2437-8XF32-1AL2/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2437-8XF32-1AL2





last change:

Dec 17, 2014