SIEMENS

Data sheet 3RA2816-0EW20

Function module star-delta (wye-delta) consisting of basic module and 2 coupling modules with integrated connecting cable Time range 0.5...60 s 24...240 V AC/DC For 3RT2 S00-S3 contactors and 3RH2 S00 contactor relays Varistor for attenuation of the contactor coils integrated



product designation design of the product product type designation General technical data size of contactor can be combined company-specific product component semi-conductor output No product extension required remote control insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value test voltage for isolation test degree of pollution surge voltage resistance rated value test voltage for surge voltage test protection class IP of the terminal shock resistance according to IEC 60068-2-6 mechanical service life (switching cycles) with contactor 3R.2 of frame size S0 with contactor 3R.2 of frame size S2 with contactor 3R.2 of frame size S3 electrical endurance (switching cycles) at AC-15 at 230 V typical	d two coupling modules
product type designation General technical data size of contactor can be combined company-specific product component semi-conductor output No product extension required remote control insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value test voltage for isolation test degree of pollution surge voltage resistance rated value test voltage for surge voltage test protection class IP of the terminal shock resistance according to IEC 60068-2-6 mechanical service life (switching cycles) with contactor 3R.2 of frame size S0 with contactor 3R.2 of frame size S2 with contactor 3R.2 of frame size S3 electrical endurance (switching cycles) at AC-15 at 230 V soon S00, S0, S2, S3 NO0, S0, S0, S2, S0 No0, S0, S2, S0 No0, S0, S0, S0, S0 No0, S0, S0, S2, S0 No0, S0, S0, S0, S2, S0 No0, S0, S0, S0, S0 No0, S0, S0, S0, S0 No0, S0, S0, S0, S2, S0 No0, S0, S0, S0, S0 No0, S0, S0, S0, S0 No0, S0, S0 No0, S0, S0, S0 No0, S0, S0, S0 No0, S0, S0 No0, S0, S0, S0 No0, S0, S0 No0	d two coupling modules
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size of contactor can be combined company-specific product component semi-conductor output No product extension required remote control insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value test voltage for isolation test degree of pollution surge voltage resistance rated value test voltage for surge voltage test protection class IP of the terminal shock resistance according to IEC 60068-2-27 wibration resistance according to IEC 60068-2-6 mechanical service life (switching cycles) typical mechanical service life (switching cycles) with contactor 3R.2 of frame size S0 with contactor 3R.2 of frame size S2 with contactor 3R.2 of frame size S3 electrical endurance (switching cycles) at AC-15 at 230 V 10 000 000 No No 300 V 15 kV 4	
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mechanical service life (switching cycles) typical mechanical service life (switching cycles) with contactor 3R.2 of frame size S00 with contactor 3R.2 of frame size S0 with contactor 3R.2 of frame size S2 with contactor 3R.2 of frame size S2 with contactor 3R.2 of frame size S3 lo 000 000 electrical endurance (switching cycles) at AC-15 at 230 V	
mechanical service life (switching cycles) • with contactor 3R.2 of frame size S00 • with contactor 3R.2 of frame size S0 • with contactor 3R.2 of frame size S2 • with contactor 3R.2 of frame size S2 • with contactor 3R.2 of frame size S3 • with contactor 3R.2 of frame size S2	150 Hz: 2g
 with contactor 3R.2 of frame size S00 with contactor 3R.2 of frame size S0 with contactor 3R.2 of frame size S2 with contactor 3R.2 of frame size S2 with contactor 3R.2 of frame size S3 electrical endurance (switching cycles) at AC-15 at 230 V 10 000 000 100 000 10 000 000 	
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 with contactor 3R.2 of frame size S2 with contactor 3R.2 of frame size S3 electrical endurance (switching cycles) at AC-15 at 230 V 10 000 000 100 000 	
• with contactor 3R.2 of frame size S3 10 000 000 electrical endurance (switching cycles) at AC-15 at 230 V 100 000	
electrical endurance (switching cycles) at AC-15 at 230 V 100 000	
electrical endurance (switching cycles)	
• with contactor 3R.2 of frame size S00 100 000	
• with contactor 3R.2 of frame size S0 100 000	
• with contactor 3R.2 of frame size S2 100 000	
• with contactor 3R.2 of frame size S3 100 000	
adjustable time 0.5 60 s	
relative setting accuracy relating to full-scale value 15 %	
recovery time 150 ms	
reference code according to IEC 81346-2 K	
relative repeat accuracy 1 %	
influence of the surrounding temperature ±1 %	
power supply influence ±2 %	
Substance Prohibitance (Date) 10/01/2009	

product function star-delta circuit	Yes
Control circuit/ Control	160
	ACIDO
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	04 040 1/
• at 50 Hz	24 240 V
• at 60 Hz	24 240 V
control supply voltage frequency 1	50 60 Hz
control supply voltage 1	
• at DC	24 240 V
operating range factor control supply voltage rated value at DC	
initial value	0.85
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
• initial value	0.85
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value	0.85
full-scale value	1.1
design of the surge suppressor	with varistor
Switching Function	
switching function	
ON-delay	No
ON-delay/instantaneous contact	No
passing make contact	No
passing make contact/instantaneous contact	No
OFF delay	No
switching function	
flashing symmetrically with interval start/instantaneous	No
 flashing symmetrically with interval start 	No
flashing symmetrically with pulse start/instantaneous	No
 flashing symmetrically with pulse start 	No
flashing asymmetrically with interval start	No
 flashing asymmetrically with pulse start 	No
switching function	
constant clock cycle with pulse start	No
constant clock cycle with interval start	No
switching function	
variably clocked with pulse start	No
variably clocked with purse start variably clocked with interval start	No
switching function	
star-delta circuit with delay time	No
star-delta circuit	Yes
switching function with control signal	
additive ON-delay	No
passing break contact	No
passing break contact/instantaneous	No
OFF delay	No
OFF delay/instantaneous	No
pulse delayed	No
 pulse delayed/instantaneous 	No
	No
pulse shaping/instantaneous	No
pulse-shaping/instantaneous additive ON delay/instantaneous	
additive ON-delay/instantaneous ON delay/OFF delay	No No
ON-delay/OFF-delay ON delay/OFF-delay/instantaneous	No No
ON-delay/OFF-delay/instantaneous	No No
passing make contact	No

passing make contact/instantaneous contact	No
switching function of interval relay with control signal • retrotriggerable with deactivated control	No
signal/instantaneous contact	NO .
retrotriggerable with switched-on control signal	No
 retrotriggerable with switched-on control 	No
signal/instantaneous contact	N
retriggerable with deactivated control signal design of the control terminal non-floating.	No No
design of the control terminal non-floating	No
Short-circuit protection	
design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 4 A
Auxiliary circuit	
material of switching contacts	AgSnO2
number of NO contacts	
delayed switching	2
operating frequency with 3RT2 contactor maximum	2 500 1/h
Main circuit	ACIDO
type of voltage	AC/DC
Inputs/ Outputs	
product function	
 at the relay outputs switchover delayed/without delay 	No
non-volatile	No
Electromagnetic compatibility	
EMC immunity according to IEC 61812-1	Environment A (industrial area)
conducted interference	Environment / (madellar area)
due to burst according to IEC 61000-4-4	2 kV network connection / 1 kV control connection
due to conductor-earth surge according to IEC	2 kV
61000-4-5	
due to conductor-conductor surge according to IEC 61000-4-5	1 kV
field beand interference according to IEO 04000 4.5	10 V/m
field-based interference according to IEC 61000-4-3	
electrostatic discharge according to IEC 61000-4-2	8 kV
electrostatic discharge according to IEC 61000-4-2 Safety related data	8 kV
electrostatic discharge according to IEC 61000-4-2	
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation	8 kV
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1	8 kV
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals	8 kV IP20 Basic insulation none
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit	8 kV IP20 Basic insulation
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary	8 kV IP20 Basic insulation none
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit	8 kV IP20 Basic insulation none
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit Installation/ mounting/ dimensions	8 kV IP20 Basic insulation none
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit Installation/ mounting/ dimensions mounting position	8 kV IP20 Basic insulation none No any (like contactor)
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit Installation/ mounting/ dimensions mounting position fastening method	8 kV IP20 Basic insulation none No any (like contactor) clip-on
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit Installation/ mounting/ dimensions mounting position fastening method height width depth	8 kV IP20 Basic insulation none No any (like contactor) clip-on 38 mm
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	8 kV IP20 Basic insulation none No any (like contactor) clip-on 38 mm 45 mm
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting	IP20 Basic insulation none No any (like contactor) clip-on 38 mm 45 mm 74 mm
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards	8 kV IP20 Basic insulation none No any (like contactor) clip-on 38 mm 45 mm 74 mm
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards	IP20 Basic insulation none No any (like contactor) clip-on 38 mm 45 mm 74 mm 0 mm 0 mm
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards	IP20 Basic insulation none No any (like contactor) clip-on 38 mm 45 mm 74 mm 0 mm 0 mm 0 mm
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards	IP20 Basic insulation none No any (like contactor) clip-on 38 mm 45 mm 74 mm 0 mm 0 mm 0 mm 0 mm 0 mm
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side	IP20 Basic insulation none No any (like contactor) clip-on 38 mm 45 mm 74 mm 0 mm 0 mm 0 mm
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts	8 kV IP20 Basic insulation none No any (like contactor) clip-on 38 mm 45 mm 74 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards	8 kV IP20 Basic insulation none No any (like contactor) clip-on 38 mm 45 mm 74 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — backwards — at the side	8 kV IP20 Basic insulation none No any (like contactor) clip-on 38 mm 45 mm 74 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — backwards — backwards — upwards — backwards — upwards	8 kV IP20 Basic insulation none No any (like contactor) clip-on 38 mm 45 mm 74 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — backwards — at the side	8 kV IP20 Basic insulation none No any (like contactor) clip-on 38 mm 45 mm 74 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm

0 mm
0 mm
0 mm
0 mm
0 mm
2 000 m
-25 +60 °C
-40 +85 °C
-40 +85 °C
0 95 %

Certificates/ approvals

General Product Approval

Declaration of Conformity



Confirmation





UK Declaration of Conformity



Test Certificates

Marine / Shipping

Type Test Certificates/Test Report











Marine / Shipping

other

Railway





Confirmation

Vibration and Shock

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=3RA2816-0EW20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2816-0EW20

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

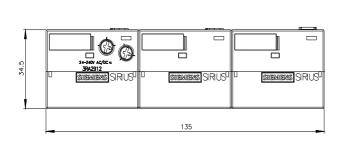
https://support.industry.siemens.com/cs/ww/en/ps/3RA2816-0EW20

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

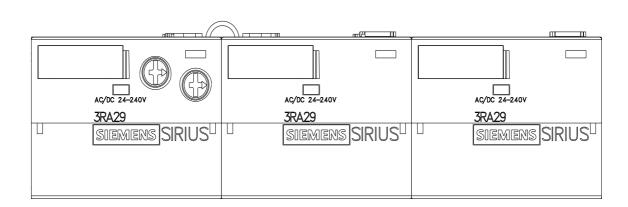
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2816-0EW20&lang=en

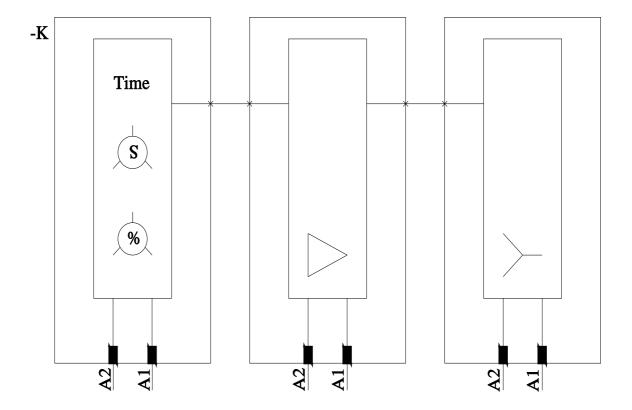
Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RA2816-0EW20/manual









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