## SIEMENS

## Data sheet

## 3RA2813-1FW10



Solid-state time-delayed auxiliary switch ON delay Relay 1 NC + 1 NO 24...240 V AC/DC Time range 0.05...100 s Can be snapped on at the front For 3RT2 S00-S3 contactors and 3RH2 S00 contactor relays Screw terminal Varistor for attenuation of the contactor coils integrated

size of contactor can be combined company-specificS00, S0, S2, S3product component semi-conductor outputNoproduct extension required remote controlNoproduct extension optional remote controlNoinsulation voltage for overvoltage category III according to EC6 60664 with degree of pollution 3 rated value300 Vtest voltage for isolation test1.5 kVdegree of pollution3surge voltage resistance rated value4 kVtest voltage for surge voltage test4 800 Vprotection class IP of the terminalIP20shock resistance acc. to IEC 60068-2-2715g / 11 msvibration resistance acc. to IEC 60068-2-610 59 Hz: 0.35 mm, 60 150 Hz: 2gmechanical service life (switching cycles)10 000 000with contactor 3R.2 of frame size S0010 000 000with contactor 3R.2 of frame size S210 000 000with contactor 3R.2 of frame size S0100 000with contactor 3R.2		
product type designation         3RA28           Seneral technical data         size of contactor can be combined company-specific         S00, S0, S2, S3           product component semi-conductor output         No         No           product extension required remote control         No         No           product extension optional remote control         No         No           1EC 60664 with degree of pollution 3 rated value         a00 V         according to           1EC 60664 with degree of pollution 3 rated value         1.5 kV         according to           test voltage for isolation test         1.5 kV         according to           degree of pollution         3         according to           sturge voltage resistance rated value         4 kV         test voltage for surge voltage test         4 800 V           protection class IP of the terminal         IP20         10 000 000         into surget to s	product brand name	SIRIUS
Seneral technical datasize of contactor can be combined company-specific product component semi-conductor outputS00, S0, S2, S3product extension required remote controlNoproduct extension optional remote controlNoinsulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value300 Vtest voltage for isolation test1.5 kVdegree of pollution3surge voltage resistance rated value4 kVtest voltage for surge voltage test4 800 Vprotection class IP of the terminalIP20shock resistance acc. to IEC 60068-2-271059 Hz: 0.35 mm, 60 150 Hz: 2gmechanical service life (switching cycles) typical10 000 000with contactor 3R.2 of frame size S010 000 000with contactor 3R.2 of frame size S210 000 000with contactor 3R.2 of frame size S010 000 000with contactor 3R.2 of frame size S0100 000with c	product designation	Solid-state time-delay auxiliary switch
size of contactor can be combined company-specificS00, S0, S2, S3product component semi-conductor outputNoproduct extension required remote controlNoproduct extension optional remote controlNoinsulation voltage for overvoltage category III according to EC6 60664 with degree of pollution 3 rated value300 Vtest voltage for isolation test1.5 kVdegree of pollution3surge voltage resistance rated value4 kVtest voltage for surge voltage test4 800 Vprotection class IP of the terminalIP20shock resistance acc. to IEC 60068-2-2715g / 11 msvibration resistance acc. to IEC 60068-2-610 59 Hz: 0.35 mm, 60 150 Hz: 2gmechanical service life (switching cycles)10 000 000with contactor 3R.2 of frame size S0010 000 000with contactor 3R.2 of frame size S210 000 000with contactor 3R.2 of frame size S0100 000with contactor 3R.2	product type designation	3RA28
product component semi-conductor outputNoproduct extension required remote controlNoproduct extension optional remote controlNoinsulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value300 Vtest voltage for isolation test1.5 kVdegree of pollution3surge voltage resistance rated value4 kVtest voltage for surge voltage test4 800 Vprotection class IP of the terminalIP20shock resistance acc. to IEC 60068-2-2715g / 11 msvibration resistance acc. to IEC 60068-2-61059 Hz: 0.35 mm, 60 150 Hz: 2gwith contactor 3R.2 of frame size S0010 000 000with contactor 3R.2 of frame size S0110 000 000with contactor 3R.2 of frame size S210 000 000with contactor 3R.2 of frame size S0110 000 000with contactor 3R.2 of frame size S0110 000 000with contactor 3R.2 of frame size S03100 000electrical endurance (switching cycles) typical100 000with contactor 3R.2 of frame size S03100 000with contactor 3R.2	General technical data	
product extension required remote controlNoproduct extension optional remote controlNoproduct extension optional remote controlNoinsulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value300 Vtest voltage for isolation test1.5 kVdegree of pollution3surge voltage resistance rated value4 kVtest voltage for surge voltage test4 800 Vprotection class IP of the terminalIP20shock resistance acc. to IEC 60068-2-2715g /11 msvibration resistance acc. to IEC 60068-2-661059 Hz: 0.35 mm, 60 150 Hz: 2gmechanical service life (switching cycles) typical10 000 000with contactor 3R.2 of frame size S010 000 000with contactor 3R.2 of frame size S210 000 000with contactor 3R.2 of frame size S3100 000electrical endurance (switching cycles) at AC-15 at 230 V typical100 000with contactor 3R.2 of frame size S0100 000w	size of contactor can be combined company-specific	S00, S0, S2, S3
product extension optional remote controlNoinsulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value300 Vtest voltage for isolation test1.5 kVdegree of pollution3surge voltage resistance rated value4 kVtest voltage for surge voltage test4 800 Vprotection class IP of the terminalIP20shock resistance acc. to IEC 60068-2-2715g / 11 msvibration resistance acc. to IEC 60068-2-610 59 Hz: 0.35 mm, 60 150 Hz: 2gmechanical service Iife (switching cycles) typical10 000 000with contactor 3R.2 of frame size S010 000 000with contactor 3R.2 of frame size S3100 000with contactor 3R.2 of frame size S3	product component semi-conductor output	No
Insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value300 Vtest voltage for isolation test1.5 kVdegree of pollution3surge voltage resistance rated value4 kVtest voltage for surge voltage test4 800 Vprotection class IP of the terminalIP20shock resistance acc. to IEC 60068-2-2715g / 11 msvibration resistance acc. to IEC 60068-2-610 59 Hz: 0.35 mm, 60 150 Hz: 2gmechanical service life (switching cycles) typical10 000 000with contactor 3R.2 of frame size S0010 000 000with contactor 3R.2 of frame size S210 000 000with contactor 3R.2 of frame size S310 000 000electrical endurance (switching cycles) typical100 000with contactor 3R.2 of frame size S00100 000with contactor 3R.2 of frame size S210 000 000with contactor 3R.2 of frame size S3100 000with contactor 3R.2 of frame size S00100 000with contactor 3R.2 of frame size S3100 000with contactor 3R.2 of frame size S3100 000with contactor 3R.2 of frame size S00100 000with contactor 3R.2 of frame size S0100 000with contactor 3R.2 of frame size S3100 000wit	product extension required remote control	No
IEC 60664 with degree of pollution 3 rated valueIEC 60664 with degree of pollutiontest voltage for isolation test1.5 kVdegree of pollution3surge voltage resistance rated value4 kVtest voltage for surge voltage test4 800 Vprotection class IP of the terminalIP20shock resistance acc. to IEC 60068-2-2715g / 11 msvibration resistance acc. to IEC 60068-2-610 59 Hz: 0.35 mm, 60 150 Hz: 2gmechanical service life (switching cycles)10 000 000with contactor 3R.2 of frame size S010 000 000with contactor 3R.2 of frame size S210 000 000with contactor 3R.2 of frame size S310 000 000electrical endurance (switching cycles)1000 000with contactor 3R.2 of frame size S0100 000with contactor 3R.2 of frame size S3100 000electrical endurance (switching cycles)100 000with contactor 3R.2 of frame size S0100 000with contactor 3R.2 of frame size S2100 000with contactor 3R.2 of frame size S3100 000<	product extension optional remote control	No
degree of pollution3surge voltage resistance rated value4 kVtest voltage for surge voltage test4 800 Vprotection class IP of the terminalIP20shock resistance acc. to IEC 60068-2-2715g / 11 msvibration resistance acc. to IEC 60068-2-6610 59 Hz: 0.35 mm, 60 150 Hz: 2gmechanical service life (switching cycles) typical10 000 000with contactor 3R.2 of frame size S0010 000 000with contactor 3R.2 of frame size S210 000 000with contactor 3R.2 of frame size S310 000 000electrical endurance (switching cycles) at AC-15 at 230 V typical100 000electrical endurance (switching cycles)100 000with contactor 3R.2 of frame size S0100 000electrical endurance (switching cycles)100 000with contactor 3R.2 of frame size S3100 000electrical endurance (switching cycles)100 000with contactor 3R.2 of frame size S0100 000with contactor 3R.2 of frame size S3100 000with contactor 3R.2 of frame size S0100 000with contactor 3R.2 of frame size S0100 000with contactor 3R.2 of frame size S2100 000with contactor 3R.2 of frame size S3100 000with contactor 3R.2 of frame size S3100 000 <td></td> <td>300 V</td>		300 V
Surge voltage resistance rated value4 kVtest voltage for surge voltage test4 800 Vprotection class IP of the terminalIP20shock resistance acc. to IEC 60068-2-2715g / 11 msvibration resistance acc. to IEC 60068-2-610 59 Hz: 0.35 mm, 60 150 Hz: 2gmechanical service life (switching cycles) typical10 000 000mechanical service life (switching cycles)10 000 000• with contactor 3R.2 of frame size S010 000 000• with contactor 3R.2 of frame size S210 000 000• with contactor 3R.2 of frame size S210 000 000• with contactor 3R.2 of frame size S210 000 000• with contactor 3R.2 of frame size S210 000 000• with contactor 3R.2 of frame size S210 000 000• with contactor 3R.2 of frame size S3100 000• with contactor 3	test voltage for isolation test	1.5 kV
test voltage for surge voltage test4 800 Vprotection class IP of the terminalIP20shock resistance acc. to IEC 60068-2-2715g / 11 msvibration resistance acc. to IEC 60068-2-610 59 Hz: 0.35 mm, 60 150 Hz: 2gmechanical service life (switching cycles) typical10 000 000mechanical service life (switching cycles)10 000 000• with contactor 3R.2 of frame size S0010 000 000• with contactor 3R.2 of frame size S210 000 000• with contactor 3R.2 of frame size S210 000 000• with contactor 3R.2 of frame size S310 000 000• with contactor 3R.2 of frame size S310 000 000• with contactor 3R.2 of frame size S310 000 000• with contactor 3R.2 of frame size S310 000 000• with contactor 3R.2 of frame size S3100 000• with contactor 3R.2 of frame size S3100 000• with contactor 3R.2 of frame size S3100 000• with contactor 3R.2 of frame size S00100 000• with contactor 3R.2 of frame size S0100 000• with contactor 3R.2 of frame size S2100 000• with contactor 3R.2 of frame size S3100 000• wit	degree of pollution	3
protection class IP of the terminalIP20shock resistance acc. to IEC 60068-2-2715g / 11 msvibration resistance acc. to IEC 60068-2-610 59 Hz: 0.35 mm, 60 150 Hz: 2gmechanical service life (switching cycles) typical10 000 000mechanical service life (switching cycles)10 000 000with contactor 3R.2 of frame size S0010 000 000with contactor 3R.2 of frame size S210 000 000with contactor 3R.2 of frame size S210 000 000with contactor 3R.2 of frame size S310 000 000with contactor 3R.2 of frame size S310 000 000with contactor 3R.2 of frame size S310 000 000with contactor 3R.2 of frame size S3100 000electrical endurance (switching cycles) at AC-15 at 230 V typical100 000electrical endurance (switching cycles)100 000with contactor 3R.2 of frame size S0100 000with contactor 3R.2 of frame size S2100 000with contactor 3R.2 of frame size S3100 000with contactor 3R.2 of frame size S3100 000with contactor 3R	surge voltage resistance rated value	4 kV
shock resistance acc. to IEC 60068-2-2715g / 11 msvibration resistance acc. to IEC 60068-2-610 59 Hz: 0.35 mm, 60 150 Hz: 2gmechanical service life (switching cycles) typical10 000 000mechanical service life (switching cycles)10 000 000with contactor 3R.2 of frame size S0010 000 000with contactor 3R.2 of frame size S210 000 000with contactor 3R.2 of frame size S210 000 000with contactor 3R.2 of frame size S310 000 000electrical endurance (switching cycles) at AC-15 at 230 V typical100 000electrical endurance (switching cycles)100 000with contactor 3R.2 of frame size S0100 000electrical endurance (switching cycles)100 000with contactor 3R.2 of frame size S3100 000electrical endurance (switching cycles)100 000with contactor 3R.2 of frame size S0100 000with contactor 3R.2 of frame size S0100 000with contactor 3R.2 of frame size S0100 000with contactor 3R.2 of frame size S2100 000with contactor 3R.2 of frame size S3100 000with contacto	test voltage for surge voltage test	4 800 V
vibration resistance acc. to IEC 60068-2-610 59 Hz: 0.35 mm, 60 150 Hz: 2gmechanical service life (switching cycles) typical10 000 000mechanical service life (switching cycles)10 000 000with contactor 3R.2 of frame size S0010 000 000with contactor 3R.2 of frame size S210 000 000with contactor 3R.2 of frame size S210 000 000electrical endurance (switching cycles) at AC-15 at 230 V100 000typical100 000electrical endurance (switching cycles)100 000with contactor 3R.2 of frame size S00100 000electrical endurance (switching cycles) at AC-15 at 230 V100 000typical100 000electrical endurance (switching cycles)100 000with contactor 3R.2 of frame size S00100 000with contactor 3R.2 of frame size S2100 000with contactor 3R.2 of frame size S3100 000<	protection class IP of the terminal	IP20
mechanical service life (switching cycles) typical10 000 000mechanical service life (switching cycles)10 000 000• with contactor 3R.2 of frame size S0010 000 000• with contactor 3R.2 of frame size S010 000 000• with contactor 3R.2 of frame size S210 000 000• with contactor 3R.2 of frame size S210 000 000• with contactor 3R.2 of frame size S310 000 000• with contactor 3R.2 of frame size S310 000 000• with contactor 3R.2 of frame size S3100 000• with contactor 3R.2 of frame size S3100 000• with contactor 3R.2 of frame size S00100 000• with contactor 3R.2 of frame size S00100 000• with contactor 3R.2 of frame size S00100 000• with contactor 3R.2 of frame size S0100 000• with contactor 3R.2 of frame size S2100 000• with contactor 3R.2 of frame size S0100 000• with contactor 3R.2 of frame size S2100 000• with contactor 3R.2 of frame size S3100 000• with contactor 3R.2 of frame size S3 <td>shock resistance acc. to IEC 60068-2-27</td> <td>15g / 11 ms</td>	shock resistance acc. to IEC 60068-2-27	15g / 11 ms
mechanical service life (switching cycles)• with contactor 3R.2 of frame size S0010 000 000• with contactor 3R.2 of frame size S010 000 000• with contactor 3R.2 of frame size S210 000 000• with contactor 3R.2 of frame size S310 000 000• with contactor 3R.2 of frame size S310 000 000electrical endurance (switching cycles) at AC-15 at 230 V typical100 000• with contactor 3R.2 of frame size S00100 000• with contactor 3R.2 of frame size S00100 000• with contactor 3R.2 of frame size S00100 000• with contactor 3R.2 of frame size S01100 000• with contactor 3R.2 of frame size S02100 000• with contactor 3R.2 of frame size S02100 000• with contactor 3R.2 of frame size S03100 000• with contactor 3R.2	vibration resistance acc. to IEC 60068-2-6	10 59 Hz: 0.35 mm, 60 150 Hz: 2g
• with contactor 3R.2 of frame size S0010 000 000• with contactor 3R.2 of frame size S010 000 000• with contactor 3R.2 of frame size S210 000 000• with contactor 3R.2 of frame size S310 000 000• with contactor 3R.2 of frame size S310 000 000• electrical endurance (switching cycles) at AC-15 at 230 V typical100 000• with contactor 3R.2 of frame size S00100 000• with contactor 3R.2 of frame size S00100 000• with contactor 3R.2 of frame size S00100 000• with contactor 3R.2 of frame size S0100 000• with contactor 3R.2 of frame size S2100 000• with contactor 3R.2 of frame size S3100 000• with contactor 3R.2 of frame size S3100 000	mechanical service life (switching cycles) typical	10 000 000
• with contactor 3R.2 of frame size S010 000 000• with contactor 3R.2 of frame size S210 000 000• with contactor 3R.2 of frame size S310 000 000electrical endurance (switching cycles) at AC-15 at 230 V typical100 000electrical endurance (switching cycles) at AC-15 at 230 V typical100 000• with contactor 3R.2 of frame size S00100 000• with contactor 3R.2 of frame size S00100 000• with contactor 3R.2 of frame size S0100 000• with contactor 3R.2 of frame size S2100 000• with contactor 3R.2 of frame size S2100 000• with contactor 3R.2 of frame size S3100 000	mechanical service life (switching cycles)	
• with contactor 3R.2 of frame size S210 000 000• with contactor 3R.2 of frame size S310 000 000electrical endurance (switching cycles) at AC-15 at 230 V typical100 000electrical endurance (switching cycles)100 000• with contactor 3R.2 of frame size S00100 000• with contactor 3R.2 of frame size S0100 000• with contactor 3R.2 of frame size S0100 000• with contactor 3R.2 of frame size S2100 000• with contactor 3R.2 of frame size S3100 000• with contactor 3R.2 of frame size S3100 000	<ul> <li>with contactor 3R.2 of frame size S00</li> </ul>	10 000 000
• with contactor 3R.2 of frame size S310 000 000electrical endurance (switching cycles) at AC-15 at 230 V typical100 000electrical endurance (switching cycles)100 000• with contactor 3R.2 of frame size S00100 000• with contactor 3R.2 of frame size S0100 000• with contactor 3R.2 of frame size S0100 000• with contactor 3R.2 of frame size S2100 000• with contactor 3R.2 of frame size S3100 000• with contactor 3R.2 of frame size S3100 000• with contactor 3R.2 of frame size S3100 000	<ul> <li>with contactor 3R.2 of frame size S0</li> </ul>	10 000 000
electrical endurance (switching cycles) at AC-15 at 230 V typical100 000electrical endurance (switching cycles)100 000• with contactor 3R.2 of frame size S00100 000• with contactor 3R.2 of frame size S0100 000• with contactor 3R.2 of frame size S0100 000• with contactor 3R.2 of frame size S2100 000• with contactor 3R.2 of frame size S2100 000• with contactor 3R.2 of frame size S3100 000• with contactor 3R.2 of frame size S3100 000• with contactor 3R.2 of frame size S3100 000	<ul> <li>with contactor 3R.2 of frame size S2</li> </ul>	10 000 000
typicalImage: constraint of the systemelectrical endurance (switching cycles)Image: constraint of the system• with contactor 3R.2 of frame size S00100 000• with contactor 3R.2 of frame size S2100 000• with contactor 3R.2 of frame size S2100 000• with contactor 3R.2 of frame size S3100 000	<ul> <li>with contactor 3R.2 of frame size S3</li> </ul>	10 000 000
• 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 S2         100 000           • with contactor 3R.2 of frame size S3         100 000           • with contactor 3R.2 of frame size S3         0.000           • with contactor 3R.2 of frame size S3         100 000		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         0.05 100 s	electrical endurance (switching cycles)	
• with contactor 3R.2 of frame size S2         100 000           • with contactor 3R.2 of frame size S3         100 000           adjustable time         0.05 100 s	<ul> <li>with contactor 3R.2 of frame size S00</li> </ul>	100 000
• with contactor 3R.2 of frame size S3         100 000           adjustable time         0.05 100 s	<ul> <li>with contactor 3R.2 of frame size S0</li> </ul>	100 000
adjustable time 0.05 100 s	<ul> <li>with contactor 3R.2 of frame size S2</li> </ul>	100 000
	<ul> <li>with contactor 3R.2 of frame size S3</li> </ul>	100 000
	adjustable time	0.05 100 s
relative setting accuracy relating to full-scale value 15 %	relative setting accuracy relating to full-scale value	15 %
recovery time 150 ms	recovery time	150 ms
reference code acc. to IEC 81346-2 K	reference code acc. to IEC 81346-2	К
relative repeat accuracy 1 %	relative repeat accuracy	
influence of the surrounding temperature ±1 %	influence of the surrounding temperature	±1 %
power supply influence ±1 %	power supply influence	±1 %
Substance Prohibitance (Date) 01.10.2009	Substance Prohibitance (Date)	01.10.2009
roduct Function	Product Function	
product function star-delta circuit No	product function star-delta circuit	No

Web: https://www.bolenscontrol.com/ - Phone: (800) 658-5241 - Email: sales@bolenscontrol.com

Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
• 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	
<ul> <li>initial value</li> </ul>	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	
<ul> <li>initial value</li> </ul>	0.85
full-scale value	1.1
design of the surge suppressor	with varistor
Switching Function	
switching function	
ON-delay	Yes
<ul> <li>ON-delay/instantaneous contact</li> </ul>	No
<ul> <li>passing make contact</li> </ul>	No
<ul> <li>passing make contact/instantaneous contact</li> </ul>	No
OFF delay	No
switching function	
<ul> <li>flashing symmetrically with interval start/instantaneous</li> </ul>	No
<ul> <li>flashing symmetrically with interval start</li> </ul>	No
<ul> <li>flashing symmetrically with pulse start/instantaneous</li> </ul>	No
<ul> <li>flashing symmetrically with pulse start</li> </ul>	No
<ul> <li>flashing asymmetrically with interval start</li> </ul>	No
<ul> <li>flashing asymmetrically with pulse start</li> </ul>	No
switching function	
<ul> <li>constant clock cycle with pulse start</li> </ul>	No
<ul> <li>constant clock cycle with interval start</li> </ul>	No
switching function	
<ul> <li>variably clocked with pulse start</li> </ul>	No
<ul> <li>variably clocked with interval start</li> </ul>	No
switching function	
<ul> <li>star-delta circuit with delay time</li> </ul>	No
star-delta circuit	No
switching function with control signal	
<ul> <li>additive ON-delay</li> </ul>	No
<ul> <li>passing break contact</li> </ul>	No
<ul> <li>passing break contact/instantaneous</li> </ul>	No
OFF delay	No
<ul> <li>OFF delay/instantaneous</li> </ul>	No
<ul> <li>pulse delayed</li> </ul>	No
<ul> <li>pulse delayed/instantaneous</li> </ul>	No
• pulse-shaping	No
<ul> <li>pulse-shaping/instantaneous</li> </ul>	No
<ul> <li>additive ON-delay/instantaneous</li> </ul>	No
ON-delay/OFF-delay	No
ON-delay/OFF-delay/instantaneous	No
passing make contact	No
<ul> <li>passing make contact/instantaneous contact</li> </ul>	No
· · ·	

switching function of interval relay with control signal	
retrotriggerable with deactivated control	No
<ul> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> </ul>	
<ul> <li>retrotriggerable with switched-on control signal</li> </ul>	No
<ul> <li>retrotriggerable with switched-on control</li> </ul>	No
signal/instantaneous contact	
<ul> <li>retriggerable with deactivated control signal</li> </ul>	No
design of the control terminal non-floating	Yes
Short-circuit protection	
design of the fuse link for short-circuit protection of the	fuse gL/gG: 4 A
auxiliary switch required	
Auxiliary circuit	
material of switching contacts	AgNi
number of NC contacts	
<ul> <li>delayed switching</li> </ul>	1
number of NO contacts	
<ul> <li>delayed switching</li> </ul>	1
operational current of auxiliary contacts at AC-15	
• maximum	3 A
• at 24 V	3 A
• at 250 V	3 A
operational current of auxiliary contacts as NC contact at AC-15	
• at 24 V	3 A
• at 250 V	3 A
operational current of auxiliary contacts as NO contact at AC-15	
• at 24 V	3 A
• at 250 V	3 A
operational current of auxiliary contacts at DC-13	1 0.1
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
• at 125 V	0.2 A
• at 250 V	0.1 A
operating frequency with 3RT2 contactor maximum	2 500 1/h
contact rating of auxiliary contacts according to UL	B300 / R300
Main circuit	
type of voltage	AC/DC
Inputs/ Outputs	
product function	
<ul> <li>at the relay outputs switchover delayed/without delay</li> </ul>	No
non-volatile	No
Electromagnetic compatibility	
EMC immunity acc. to IEC 61812-1	Environment A (industrial area)
conducted interference	
• due to burst acc. to IEC 61000-4-4	2 kV network connection / 1 kV control connection
• due to conductor-earth surge acc. to IEC 61000-4-5	2 kV
<ul> <li>due to conductor-conductor surge acc. to IEC</li> </ul>	1 kV
61000-4-5	
field-based interference acc. to IEC 61000-4-3	10 V/m
electrostatic discharge acc. to IEC 61000-4-2	8 kV
Safety related data	
protection class IP on the front acc. to IEC 60529	IP20
type of insulation	Basic insulation
category acc. to EN 954-1	none
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	

Web: https://www.bolenscontrol.com/ - Phone: (800) 658-5241 - Email: sales@bolenscontrol.com

• solid	
- John	0.5 4 mm², 2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
at AWG cables solid	2x (20 14)
<ul> <li>at AWG cables stranded</li> </ul>	2x (20 14)
connectable conductor cross-section	
• solid	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
<ul> <li>finely stranded without core end processing</li> </ul>	0.25 1.5 mm <sup>2</sup>
AWG number as coded connectable conductor cross	
section	
• solid	20 14
<ul> <li>stranded</li> </ul>	20 14
Installation/ mounting/ dimensions	
mounting position	any (like contactor)
fastening method	clip-on
height	38 mm
width	45 mm
depth	74 mm
required spacing	
with side-by-side mounting     forwards	0 mm
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— at the side	0 mm
— downwards	0 mm
<ul> <li>for live parts</li> </ul>	
— forwards	0 mm
— backwards	0 mm
	0 mm
— upwards	
— upwards — downwards	0 mm
	0 mm 0 mm
— downwards	
<ul> <li>downwards</li> <li>at the side</li> <li>Ambient conditions</li> </ul>	
	0 mm
	0 mm
	0 mm 2 000 m
<ul> <li>downwards         <ul> <li>at the side</li> </ul> </li> <li>Ambient conditions         <ul> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature                 <ul> <li>during operation</li> <li>during storage</li> </ul> </li> </ul> </li> </ul>	0 mm 2 000 m -25 +60 °C
<ul> <li>downwards         <ul> <li>at the side</li> </ul> </li> <li>Ambient conditions         <ul> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul> </li> </ul>	0 mm 2 000 m -25 +60 °C -40 +85 °C -40 +85 °C
<ul> <li>downwards         <ul> <li>at the side</li> </ul> </li> <li>Ambient conditions         <ul> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature                 <ul> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>relative humidity during operation</li> </ul> </li> </ul> </li> </ul>	0 mm 2 000 m -25 +60 °C -40 +85 °C
<ul> <li>downwards         <ul> <li>at the side</li> </ul> </li> <li>Ambient conditions         <ul> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>relative humidity during operation</li> </ul> </li> <li>Certificates/ approvals</li> </ul>	0 mm 2 000 m -25 +60 °C -40 +85 °C -40 +85 °C 0 95 %
<ul> <li>downwards         <ul> <li>at the side</li> </ul> </li> <li>Ambient conditions         <ul> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>relative humidity during operation</li> </ul> </li> </ul>	0 mm 2 000 m -25 +60 °C -40 +85 °C -40 +85 °C
<ul> <li>downwards         <ul> <li>at the side</li> </ul> </li> <li>Ambient conditions         <ul> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>relative humidity during operation</li> </ul> </li> <li>Certificates/ approvals</li> </ul>	0 mm 2 000 m -25 +60 °C -40 +85 °C -40 +85 °C 0 95 %
<ul> <li>downwards         <ul> <li>at the side</li> </ul> </li> <li>Ambient conditions         <ul> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>relative humidity during operation</li> </ul> </li> <li>Certificates/ approvals</li> </ul>	0 mm 2 000 m -25 +60 °C -40 +85 °C -40 +85 °C 0 95 % Declaration of Conformity
<ul> <li>downwards         <ul> <li>at the side</li> </ul> </li> <li>Ambient conditions         <ul> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>relative humidity during operation</li> </ul> </li> <li>Certificates/ approvals</li> </ul>	0 mm 2 000 m -25 +60 °C -40 +85 °C -40 +85 °C 0 95 %
<ul> <li>downwards         <ul> <li>at the side</li> </ul> </li> <li>Ambient conditions         <ul> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>relative humidity during operation</li> </ul> </li> <li>Certificates/ approvals</li> </ul>	0 mm 2 000 m -25 +60 °C -40 +85 °C -40 +85 °C 0 95 % Declaration of Conformity
<ul> <li>downwards <ul> <li>at the side</li> </ul> </li> <li>Ambient conditions <ul> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul> </li> <li>relative humidity during operation</li> </ul> Certificates/ approvals General Product Approval	0 mm 2 000 m -25 +60 °C -40 +85 °C -40 +85 °C 0 95 % Declaration of Conformity ERE CE
<ul> <li>downwards <ul> <li>at the side</li> </ul> </li> <li>Ambient conditions <ul> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul> </li> <li>relative humidity during operation</li> </ul> Certificates/ approvals General Product Approval	0 mm 2 000 m -25 +60 °C -40 +85 °C -40 +85 °C 0 95 % Declaration of Conformity ERE CE
<ul> <li>downwards</li> <li>at the side</li> </ul> Ambient conditions <ul> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>relative humidity during operation</li> </ul> Certificates/ approvals General Product Approval Ccc	0 mm 2 000 m -25 +60 °C -40 +85 °C -40 +85 °C 0 95 % Declaration of Conformity EFRE EG-Konf.
<ul> <li>downwards <ul> <li>at the side</li> </ul> </li> <li>Ambient conditions <ul> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul> </li> <li>relative humidity during operation</li> </ul> Certificates/ approvals General Product Approval	0 mm 2 000 m -25 +60 °C -40 +85 °C -40 +85 °C 0 95 % Declaration of Conformity EFRE EG-Konf.
<ul> <li>downwards</li> <li>at the side</li> </ul> Ambient conditions <ul> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>relative humidity during operation</li> </ul> Certificates/ approvals General Product Approval Ccc	0 mm 2 000 m -25 +60 °C -40 +85 °C -40 +85 °C 0 95 % Declaration of Conformity EFRE EG-Konf.
<ul> <li>downwards</li> <li>at the side</li> </ul> Ambient conditions <ul> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul> relative humidity during operation Certificates/ approvals General Product Approval Ccc	0 mm 2 000 m -25 +60 °C -40 +85 °C -40 +85 °C 0 95 % Declaration of Conformity EFRE EG-Konf.
<ul> <li>downwards</li> <li>at the side</li> </ul> Ambient conditions <ul> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul> relative humidity during operation Certificates/ approvals General Product Approval Output	0 mm 2 000 m -25 +60 °C -40 +85 °C -40 +85 °C 0 95 % Declaration of Conformity EFRE EG-Konf.
<ul> <li>downwards</li> <li>at the side</li> </ul> Ambient conditions <ul> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul> relative humidity during operation Certificates/ approvals General Product Approval Output	0 mm 2 000 m -25 +60 °C -40 +85 °C -40 +85 °C 0 95 % Declaration of Conformity EFRE EG-Konf.
<ul> <li>downwards         <ul> <li>at the side</li> </ul> </li> <li>Ambient conditions         <ul> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>relative humidity during operation</li> </ul> </li> <li>Certificates/ approvals         <ul> <li>General Product Approval</li> <li></li></ul></li></ul>	0 mm 2 000 m -25 +60 °C -40 +85 °C -40 +85 °C 0 95 % Declaration of Conformity EFRE EG-Konf. pping EFRE



Further information







