## SIEMENS

## **Product data sheet**

## 3RF3416-1BB04



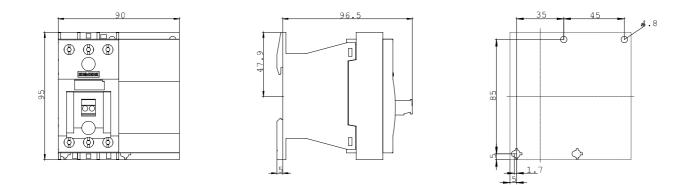
SOLID-STATE CONTACTOR 3-PH 3RF3 AC53 16A 40 DEGREES C 48-480V / 24V DC 2-PH. CONTROLLED INSTANTANEOUS SCREW TERMINALS

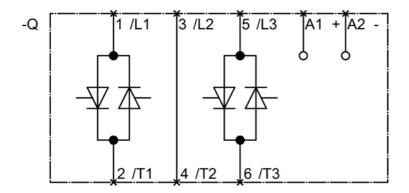
General technical data:		
Product brand name		SIRIUS
product designation		solid-state motor contactor
Protection class IP		IP20
Insulation voltage / rated value	V	600
Installation altitude / at a height over sea level / maximum	m	1,000
Ambient temperature		
during storage	°C	-55 80
during operating	°C	-25 60
Resistance against shock		
according to IEC 60068-2-27		15g / 11 ms
Resistance against vibration		
according to IEC 60068-2-6		2g
Resistance against the impulse current / rated value	А	1,150
Active power loss / total / typical	W	28
Item designation		
<ul> <li>according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</li> </ul>		к
according to DIN EN 61346-2		Q
Product function		instantaneous switching

Number of poles / for main current circuit		3
Number of NC contacts / for main contacts	_	0
Number of NO contacts / for main contacts	_	2
Operating frequency	_	
• rated value	Hz	60 50
Operating voltage	_	
• at 60 Hz / at AC / rated value	V	48 480
• at 50 Hz / at AC / rated value	V	48 480
Operating current		
• minimum	mA	500
• at AC-3 / at 400 V / rated value	А	16
Working area related to the operating voltage		
• at 50 Hz / for AC	V	40 506
• at 60 Hz / for AC	V	40 506
Service power / at AC-3 / at 400 V		
rated value	kW	7.5
Derating temperature	°C	40
Tolerance of the line frequency	Hz	5
Relative symmetrical tolerance / of the operation frequency	%	10
l2t-level / maximum	A²-s	6,600
Voltage slew rate / at the thyristor / for main contacts		
maximum permissible	V/µs	1,000
Block voltage / at the thyristor / for main contacts		
maximum permissible	V	1,200
Reverse current / of the thyristor	mA	10
Control circuit:		
Type of voltage / of the controlled supply voltage		DC
Control supply voltage	-	
• 1		
• for DC		
initial rated value	V	15
• final rated value	V	30
<ul> <li>for DC / final value for signal&lt;0&gt;-recognition</li> </ul>	V	5
Control current		
• for DC / rated value	mA	15
<ul> <li>at minimum control supply voltage / for DC</li> </ul>	mA	2

Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		0
Number of change-over switches / for auxiliary contacts	_	0
Installation/mounting/dimensions:		
Built in orientation		vertical
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail
Type of fixing/fixation / series installation		Yes
Tightening torque / of the screw for fastening of the operating resource	N∙m	1.5
Design of the thread / of the screw for fastening of the operating resource		M4
Width	mm	90
Height	mm	95
Depth	mm	100.8
Distance, to be maintained, to the ranks assembly	-	
• upwards	mm	70
downwards	mm	50
Connections:		
Design of the electrical connection		
for main current circuit		screw-type terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>		screw-type terminals
Design of the thread / of the connection screw	-	
for main contacts		M4
<ul> <li>of the auxiliary and control pins</li> </ul>		M3
Product function / removable terminal for auxiliary and control circuit	-	Yes
Type of the connectable conductor cross-section		
for main contacts		
• solid		2x (0.5 2.5 mm²)
finely stranded		
<ul> <li>with conductor end processing</li> </ul>		2x (0.5 1.5 mm²)
<ul><li>with conductor end processing</li><li>without conductor final cutting</li></ul>		2x (0.5 1.5 mm <sup>2</sup> ) 2x (0.5 2.5 mm2)
without conductor final cutting		2x (0.5 2.5 mm2)
without conductor final cutting     for AWG conductors / for main contacts		2x (0.5 2.5 mm2)
<ul> <li>without conductor final cutting</li> <li>for AWG conductors / for main contacts</li> <li>for auxiliary and control contacts</li> </ul>		2x (0.5 2.5 mm2) 2x (18 14)
<ul> <li>without conductor final cutting</li> <li>for AWG conductors / for main contacts</li> <li>for auxiliary and control contacts</li> <li>solid</li> </ul>		2x (0.5 2.5 mm2) 2x (18 14)
<ul> <li>without conductor final cutting</li> <li>for AWG conductors / for main contacts</li> <li>for auxiliary and control contacts <ul> <li>solid</li> <li>finely stranded</li> </ul> </li> </ul>		2x (0.5 2.5 mm2) 2x (18 14) 1x (0.5 2.5 mm2), 2x (0.5 1.0 mm2)

2 2.5 0.5 0.6 18 22 7.5 5.3 7 7
0.5 0.6 18 22 7.5 5.3 7
18 22 7.5 5.3 7
7.5 5.3 7
7.5 5.3 7
7
7
CE / UL / CSA / CCC / C-TICK
2
2
5
7.6





last change:

Oct 21, 2011