



General characteristics

Number of poles	Nr.	3
Overvoltage category		III
Pollution degree		3
Frontal IP degree		IP20
Type of release		Thermal
Protection fuse		
	gG (IEC)	A 125
	aM (IEC)	A 80
	K5 (UL)	A 200
Phase failure detection		yes
Reset mode		Automatic

Power circuit characteristics

Rated insulation voltage U_i IEC/EN	V	690
Rated impulse withstand voltage U_{imp}	kV	8
Rated operational voltage	V	690
Operational frequency		
	min	Hz 0
	max	Hz 400
Operational current I_e		
	Operational current min	A 46
	Operational current max	A 65
Tripping class		10A
Test Button		Yes
Trip indicator		yes
Terminals		
	type	Yoke clamp
	screw	M5
	width	mm 9
	tool	Phillips 2
Tightening torque for terminals		
	min	Nm 3.9
	max	Nm 3.9
	min	Ibin 2.88
	max	Ibin 2.88

Conductor section

AWG/kcmil max 2

Auxiliary circuit characteristics

Auxiliary contacts			
	NO	Nr.	1
	NC	Nr.	1
Auxiliary Rated insulation voltage Ui IEC/EN		V	690
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			

	24V	A	1.5
	120V	A	1.5
	240V	A	0.75
IEC Conventional free air thermal current I _{th} ≤ 40°C		A	10
Terminals			
	Auxiliary circuit type		screw and washer
	Auxiliary circuit screw		M3,5
	Auxiliary circuit width	mm	8
	Auxiliary circuit tool		Phillips 1
Conductor section			
	Auxiliary circuit Flexible w/o lug max	mm ²	2.5
	Auxiliary circuit Flexible c/w lug max	mm ²	2.5
Tightening torque for terminals			
	Auxiliary circuit min	Nm	1
	Auxiliary circuit max	Nm	1
	Auxiliary circuit min	lbin	0.74
	Auxiliary circuit max	lbin	0.74
UL/CSA and IEC/EN 60947-5-1 designation			C300-R300
Ambient conditions			
Operating temperature			
	min	°C	-20
	max	°C	55
Storage temperature			
	min	°C	-55
	max	°C	80
Compensation temperature			
	min	°C	-15
	max	°C	55
Max altitude		m	3000
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Direct mounting on BF40... BF94...
Weight		g	365
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	at 480V	A	65
	at 600V	A	65
Certifications and compliance			
Compliance			
	CSA C22.2 n° 14		
	IEC/EN 60947-1		
	IEC/EN 60947-4-1		
	UL508		
Certifications			
	cULus		
ETIM classification			
ETIM 8.0			EC000106 - Thermal overload relay

MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE
(THREE-PHASE), AUTOMATIC RESETTING. DIRECT MOUNTING ON BF40 - BF94
CONTACTORS, 46...65A