



Product designation Power contactor Product type designation BF26

Product type designation			DF20
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	45
Operational current le			
	AC-1 (≤40°C)	Α	45
	AC-1 (≤55°C)	Α	36
	AC-1 (≤70°C)	Α	32
	AC-3 (≤440V ≤55°C)	Α	26
	AC-4 (400V)	Α	11.5
Rated operational power AC-3 (T≤55°C)	,		
	230V	kW	7.3
	400V	kW	13
	415V	kW	14
	440V	kW	14
	500V	kW	15.6
	690V	kW	18.5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	17
	400V	kW	30
	500V	kW	37
	690V	kW	51
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	25
	48V	Α	21
	75V	Α	18
	110V	Α	6
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		_	
	≤24V	Α	28
	48V	Α	28
	75V	Α	25
	110V	Α	22
	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	28
	48V	Α	28
	75V	Α	25



	220V	Α	20
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	2201		
ILO max current le in DOT with E/1\ 2 mis with 4 poles in senes	<241/	۸	20
	≤24V	A	28
	48V	A	28
	75V	A	25
	110V	Α	24
	220V	Α	26
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	18
	48V	Α	15
	75V	Α	13
	110V	Α	2
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
·	≤24V	Α	20
	48V	Α	20
	75V	Α	18
	110V	A	13
	220V	A	3
IFC may current to in DC2 DC5 with L/D < 15mg with 2 males in parise	220 V	Α	3
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	40 AV /		0.5
	≤24V	Α	25
	48V	Α	25
	75V	Α	20
	110V	Α	18
	220V	Α	19
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	30
	48V	Α	30
	75V	Α	25
	110V	Α	20
	220V	Α	15
Short-time allowable current for 10s (IEC/EN60947-1)		Α	210
Protection fuse			
1 101001101111000	gG (IEC)	Α	50
	aM (IEC)	A	32
Making consoity (PMC value)	aivi (ILC)		260
Making capacity (RMS value)		<u> </u>	200
Breaking capacity at voltage	4.4017	Δ.	000
	440V	A	208
	500V	A	184
	690V	Α	168
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
	Ith	W	4
	AC3	W	1.4
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	lbin	1.8
	max	lbin	2.2
Tightening torque for coil terminal			
geg torquo ior oon torrinidi	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8
	111111	ווטוו	0.0



		max	lbin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		6
	Flexible w/o lug conductor section			
		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section	_		
		min	mm²	1
	Fig. 2.1. 20. See Lore Level 1.1 1. december 2.	max	mm²	10
	Flexible with insulated spade lug conductor section		2	4
		min	mm²	1 10
Dower terminal protect	ation according to IEC/EN 60520	max	mm²	IP20 when wired
Mechanical features	tion according to IEC/EN 60529			iP20 when wired
Operating position				
Operating position		normal		Vertical plan
		allowable		±30°
Fixing		<u> </u>		Screw / DIN rail
Maight				35mm
Weight			g	426
Conductor section	AWG/kcmil conductor section			
	AVVG/RCITIII CONductor Section	may		6
Operations		max		0
Mechanical life			cycles	20000000
Electrical life			cycles	1600000
Safety related data				
	0d according to EN/ISO 13489-1			
		rated load	cycles	1600000
	me	chanical load	cycles	20000000
Mirror contats accordi	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	50/60Hz		V	110
			v	110
AC operating voltage			v	110
AC operating voltage	of 50/60Hz coil powered at 50Hz		V	110
AC operating voltage				
AC operating voltage	of 50/60Hz coil powered at 50Hz	min	%Us	80
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up	min max		
AC operating voltage	of 50/60Hz coil powered at 50Hz	max	%Us %Us	80 110
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up	max min	%Us %Us %Us	80 110 20
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out	max	%Us %Us	80 110
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min	%Us %Us %Us	80 110 20
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max	%Us %Us %Us %Us	80 110 20 55
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us %Us	80 110 20 55
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us %Us	80 110 20 55
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us %Us	80 110 20 55 85 110
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min	%Us %Us %Us %Us	80 110 20 55

of 50/60Hz coil powered at 50Hz

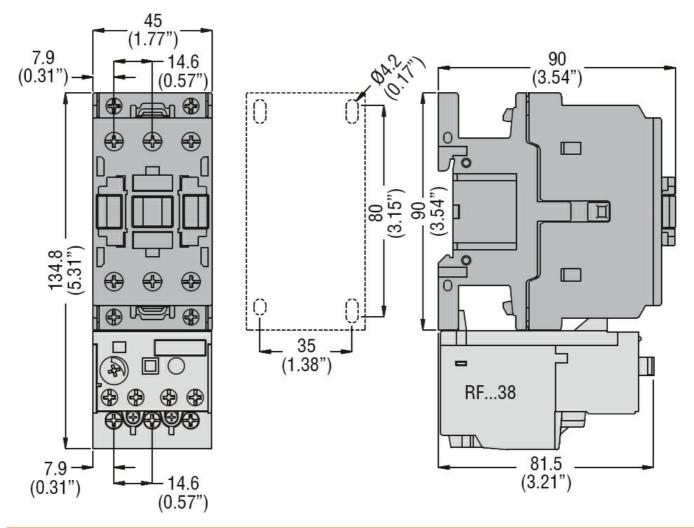


ENERGY AND AUTOMATION				
				7.5
		in-rush	VA	75
	(70/001)	holding	VA	9
	of 50/60Hz coil powered at 60Hz			70
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding ≤	20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co				
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
	•	min	ms	5
		max	ms	15
	Closing NC			
	9	min	ms	9
		max	ms	20
	Opening NC			
	opolinig i to	min	ms	9
		max	ms	17
UL technical data		тах	1110	.,,
	for three-phase AC motor			
	for three-phase AC motor	at 480V	Δ	21
	for three-phase AC motor	at 480V	Α	21
Full-load current (FLA)		at 480V at 600V	A A	21 22
	rformance			
Full-load current (FLA)		at 600V	A	22
Full-load current (FLA)	rformance	at 600V 110/120V	A HP	22
Full-load current (FLA)	rformance for single-phase AC motor	at 600V	A	22
Full-load current (FLA)	rformance	at 600V 110/120V 230V	A HP HP	22 5
Full-load current (FLA)	rformance for single-phase AC motor	at 600V 110/120V 230V 200/208V	HP HP	22 2 5 7.5
Full-load current (FLA)	rformance for single-phase AC motor	at 600V 110/120V 230V 200/208V 220/230V	HP HP HP	22 5 7.5 7.5
Full-load current (FLA)	rformance for single-phase AC motor	200/208V 220/230V 460/480V	HP HP HP HP	22 5 7.5 7.5 15
Full-load current (FLA) Yielded mechanical per	rformance for single-phase AC motor	at 600V 110/120V 230V 200/208V 220/230V	HP HP HP	22 5 7.5 7.5
Full-load current (FLA)	for single-phase AC motor for three-phase AC motor	200/208V 220/230V 460/480V	HP HP HP HP	22 5 7.5 7.5 15
Full-load current (FLA) Yielded mechanical per	rformance for single-phase AC motor	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V	HP HP HP HP HP	22 5 7.5 7.5 15 20
Full-load current (FLA) Yielded mechanical per General USE	for single-phase AC motor for three-phase AC motor Contactor	200/208V 220/230V 460/480V	HP HP HP HP	22 5 7.5 7.5 15
Full-load current (FLA) Yielded mechanical per	rformance for single-phase AC motor for three-phase AC motor Contactor fuse, 600V	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V	HP HP HP HP HP	22 5 7.5 7.5 15 20
Full-load current (FLA) Yielded mechanical per General USE	for single-phase AC motor for three-phase AC motor Contactor	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V	HP HP HP HP HP	22 5 7.5 7.5 15 20
Full-load current (FLA) Yielded mechanical per General USE	rformance for single-phase AC motor for three-phase AC motor Contactor fuse, 600V	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V	HP HP HP HP HP	22 5 7.5 7.5 15 20
Full-load current (FLA) Yielded mechanical per General USE	rformance for single-phase AC motor for three-phase AC motor Contactor fuse, 600V	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current	HP HP HP HP HP	22 5 7.5 7.5 15 20
Full-load current (FLA) Yielded mechanical per General USE	rformance for single-phase AC motor for three-phase AC motor Contactor fuse, 600V	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current	HP HP HP HP HP	22 5 7.5 7.5 15 20 45
Full-load current (FLA) Yielded mechanical per General USE	rformance for single-phase AC motor for three-phase AC motor Contactor fuse, 600V	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating	HP HP HP HP HP	22 5 7.5 7.5 15 20 45
Full-load current (FLA) Yielded mechanical per General USE	for single-phase AC motor for three-phase AC motor Contactor fuse, 600V High fault	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating	HP HP HP HP HP	22 5 7.5 7.5 15 20 45
Full-load current (FLA) Yielded mechanical per General USE	for single-phase AC motor for three-phase AC motor Contactor fuse, 600V High fault	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class Short circuit current	A HP HP HP HP A kA A	22 5 7.5 7.5 15 20 45
Yielded mechanical per General USE Short-circuit protection	for single-phase AC motor for three-phase AC motor Contactor fuse, 600V High fault	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class	A HP HP HP HP A kA A	22 5 7.5 7.5 15 20 45
Full-load current (FLA) Yielded mechanical per General USE Short-circuit protection Ambient conditions	for single-phase AC motor for three-phase AC motor Contactor fuse, 600V High fault	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class Short circuit current	A HP HP HP HP A kA A	22 5 7.5 7.5 15 20 45
Yielded mechanical per General USE Short-circuit protection	for single-phase AC motor for three-phase AC motor Contactor fuse, 600V High fault Standard fault	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class Short circuit current	A HP HP HP HP A kA A	22 5 7.5 7.5 15 20 45
Full-load current (FLA) Yielded mechanical per General USE Short-circuit protection Ambient conditions	for single-phase AC motor for three-phase AC motor Contactor fuse, 600V High fault	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class Short circuit current	A HP HP HP HP A kA A	22 5 7.5 7.5 15 20 45



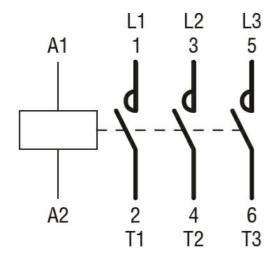
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

Dimensions



Wiring diagrams





O 1100 1			
Certificat	ione and	comr	MIGNES
Cennicai	טווס מווטו		шансе

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching