AF750

Description

AF750 are mainly used for controlling 3-phase motors and power circuits up to 1000V AC or 850V DC.

These contactors are of the block type design with:

- 3 main poles
- control circuit: AC or DC controled with electronic coil interface accepting a wide control voltage range (e.g. 100 ... 250V AC and DC)
- can manage large voltage variations
- only 4 coils to cover control voltages between 48 \dots 500V AC 50/60 Hz and 24V \dots 500V DC
- reduced panel energy consumption
- very distinced closing and opening
- can withstand short voltage dips and voltage sags (SEMI F47 conditions of use on request)
- built-in surge suppression
- add-on auxiliary contact blocks for side mounting and a wide range of accessories

Ordering details

IEC				Control circuit voltage		Auxiliary contacts fitted		Туре		Weight Pkg (1 pce)
Rated operatio- nal power 400V (kW)	Rated operatio-	3-phase motor rating 480V AC (hp)	General use rating 600V AC	50/60 Hz	V DC	~		7		
400	1050	600	900	-	24 60	1	1	AF750-30-11	1SFL637001R6811 (1)	15.00
400	1050	600	900	48 130	48 130	1	1	AF750-30-11	1SFL637001R6911	15.00
400	1050	600	900	100 250	100 250	1	1	AF750-30-11	1SFL637001R7011	15.00
400	1050	600	900	250 500	250 500	1	1	AF750-30-11	1SFL637001R7111	15.00

Technical data AF750

Coil operation limits		θ ≤ 70 °C	Operating time	
According to IEC 60947-4-1		0.85 1.1 x Uc	Coil supply between A1 - A2	
			between coil energization and:	
Drop-out voltage in % of Uc m	in. level	55%	N.O. and auxiliary contact closing	50 120 ms
			N.C. and auxiliary contact opening	50 120 ms
Coil consumption			between coil de-energization and:	
Avarage pull-in	50 Hz	850 VA	N.O. and auxiliary contact closing	33 70 ms
	60 Hz	850 VA	N.C. and auxiliary contact opening	33 70 ms
	d.c.	950 W	Control input for PLC's	40 90 ms
Avarage holding	50 Hz	12 VA / 4.5 W	between coil energization and:	
	60 Hz	12 VA / 4.5 W	N.O. and auxiliary contact closing	
	d.c.	4.5 W	N.C. and auxiliary contact opening	40 90 ms
		•	between coil de-energization and:	
			N.O. and auxiliary contact closing	10 30 ms
Main pole - Characteristic	cs acc. IEC/EN	standards	N.C. and auxiliary contact opening	10 30 ms
Rated operational voltage Ue	max.	1000 V	Heat dissipation per pole le	
			- AC-1	50 W
Rated frequency limits		50 / 60 Hz	- AC-3	28 W
Conventional free-air thermal	current Ith	1050 A	Max. electrical switching frequency	
acc. to IEC 60947-4-1, open contactors,	θ ≤ 40 °C		- AC-1	300 cycles/h
with conductor cross-sectiona	al area	800 mm ²	- AC-3	300 cycles/h
			- AC-2, AC-4	60 cycles/h
AC-1 Utilization category				
for air temperature close to contactor	•		Mechanical durability	
			- Number operating cycles	3 Millions
le / Rated operational current			- Max. switching frequency	300 cycles/h
	θ ≤ 40 °C	1050 A		
Ue max. ≤ 690 V, 50/60 Hz	θ ≤ 55 °C	875 A	Operating altetude without derating	≤ 3000 m
	θ ≤ 70 °C	720 A		
	θ ≤ 40 °C	1050 A	Rated insulation voltage Ui	1000 V
Ue max. ≤ 1000 V, 50/60 Hz	θ ≤ 55 °C	875 A		
	θ ≤ 70 °C	720 A	Rated impulse voltage withstand Uimp	8 kV
with conductor cross-sectiona	al area	800 mm ²		
			Rated short time withstand current lcw	
AC-3 Utilization category			≤1s	7000 A
for air temperature close to contactor θ ≤ 55 °C			10 s	6400 A
			30 s	4500 A
le / Max. rated operational cur	rent		1 min	3500 A
	220-230-240 V	750 A	15 min	1300 A
3-phase motors	380-400 V	750 A		
	415 V	750 A	Air temperature Close to contactor	
(M)	440 V	750 A	- fitted with electronic O/L relay	-25 to +70 °C
(3~)		750 A	- without O/L relay	-40 to +70 °C
		650 A	- for storage	-40 to +70 ℃
		300 A		

Characteristics acc. UL/CSA standards

General use rating		
Ceneral act rating	600 V a.c.	900 A
3-phase motor rating		
	200-208 V	250 hp
	220-240 V	300 hp
	440-480 V	
	550-600 V	

Dimensions (in mm)



