

	Date	Name	mm inch Scale 1:1.3 	Drawing No:	30-511-12A	
Create	12.07.2010	Kaise		General Tolerances DIN ISO 2768 cL		NSN.:
Edited	20.11.2019	Mielk				
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Bi-stable relays of the series 30 are equipped with 2 coils and magnetical latching. The relay will pick up (make) by an impulse to the pull-in coil. Without current the make position will be held by a permanent magnet. The relay will open (break) through an impulse to the drop-out coil. Break position is also supported by the permanent magnet.

TEMPERATURE RANGE.....	-40°C TO +85°C (-40°C F TO +185°F)
MAX. ALTITUDE RATING.....	50 000 FT
SEAL.....	IP67 (6FEET/0,2BAR-1MIN.) I.A.W.IEC 529
	IP6K9K (STEAM PRESSURE) DIN 40050 PART 9 AND I.A.W.IEC 529
SHOCK G-LEVEL.....	6 G/ 11 MSEC
VIBRATION.....	4 G/ 50-2000 Hz

RESISTANCE-TEMPERATURE		
MIN. INSULATION RESISTANCE; INITIAL.....	100	MEGOHMS
AFTER LIFE OR ENVIRONMENTAL.....	50	MEGOHMS
DIELECTRIC WITHSTANDING VOLTAGE	SEA-LEVEL 1 MINUTE.....	1 050 VAC
	ALTITUDE 1 MINUTE.....	500 VAC
MAX. CONTACT DROP INITIAL.....		0.15 VOLTS
AFTER LIFE TEST.....		0.175 VOLTS
OVERLOAD.....	4000 AMP FOR 1 SEC, 1800 AMP	FOR 20 SEC
DUTY RATING.....	500 AMP	CONTINUOUS

MAIN CONTACT	
RESISTIVE LOAD.....	100 000 CYCLES
ENDURANCE.....	100 000 CYCLES

<u>NONHEATING CIRCUITS</u>	
CONTINUOUS CURRENT.....	2 AMP
MAKE AND BREAK.....	2 AMP

VOLTAGE RANGE.....	18-32 VDC
NOMINAL VOLTAGE.....	24 VDC
PICK UP VOLTAGE MIN.....	13 VDC FULL TEMP. RANGE
DROP OUT VOLTAGE MIN.....	10 VDC
RESISTANCE PULL IN COIL.....	2,7 OHMS $\pm 10\%$
PULL IN CURRENT APPROX.	8,5 AMP
RESISTANCE DROP OUT COIL.....	3,8 OHMS $\pm 10\%$
DROP OUT CURRENT APPROX.....	6,3 AMP
PICK UP IMPULSE TIME.....	50 MSEC APPROX. (CONTINUOUS IMPULSE MAX. 1 MIN)
DROP OUT IMPULSE TIME.....	50 MSEC APPROX. (CONTINUOUS IMPULSE MAX. 1 MIN)

OPERATE.....	25
BOUNCE.....	5
RELEASE.....	10

WIRE SECTION (AT NOMINAL LOAD)..... MIN.150 gmm /0.233 sq.in./MCM 300

MOUNTING POSITION..... OPTIONAL

RECOMMENDED FOR HIGH INDUCTIVE LOADS AND FOR CONTACT VOLTAGES >40 VDC TO EXTEND CONTACT LIFE,
IF REQUIRED ADD SUFFIX "B" TO THE END OF ORDER-NO.

VOLTAGE RANGE.....	48 VDC.....	80 VDC.....	110 VDC.....	250 VDC...
RESISTIVE LOAD.....	400A.....	330A.....	250A.....	160A.....
ENDURANCE (CYCLES).....	100 000.....	100 000.....	50 000.....	10 000.....

SUBJECT TO CHANGE

	Date	Name		Scale 1:1		Drawing No:	30-511-12A
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