

HYDRAULICKÉ SYSTÉMY

HIDROMA SISTEMS



ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

UKŁADY HYDRAULICZNE

Solenoid coil MKY45/18x60 For explosion-hazard zones ATEX certified Protection class IP65/67





DESCRIPTION

Solenoid coil in acc. with directive 94/9/EC (ATEX) for explosion-hazard zones. **Ex:** Corresponds to the European standards

Ex: Corresponds to the European standards EN 60079-0, EN 60079-1 (Gas) EN 61241-0, EN 61241-1 (Dust)

d: Flameproof enclosures

tD: Protection by enclosure

Device group II: For all explosion-hazard zones, except mining

Gas group IIC: Gas groups IIA + IIB included Device category 2G: for zones 1 and 2 (gas) Device category 2D: for zones 21 + 22 (dust)

Zones: 1/21 and 2/22 EC-type examination certificate: PTB 07 ATEX 1023

The steel housing is zinc-/nickel-coated.

FUNCTION

In combination with an armature tube, the function of a switching solenoid or of a proportional solenoid results. Solenoid coils in AC - construction have an integrated rectifier.

All cable threaded joints certified for this explosion protection class with a protection class of at least IP65 can be used.

APPLICATION

With the EC-type test certification, the solenoid coil is certified as a device of the category 2G and 2D and of the device group II. This signifies, that the coils are suitable for applications in zones with explosion-hazard gas-, steam-, vapour-, air- and dust mixtures of the zones 1/21 and 2/22.

Valves for explosion-hazard zones are utilised in:

- the shipping- and offshore industries
- the oil- and gas industries
- the chemical industry
- wood processing
- grain mills

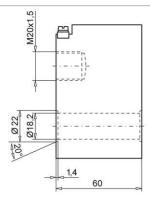
CONTENT

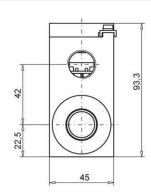
DIMENSIONS 1 CHARACTERISTICS 2 OPERATIONAL SAFETY/INSTALLATION 2 ACCESSORIES 2

TYPE CODE

		М	K	Υ	45	1	18x6	0 -] -	Е] #	
Steel coil		1		- [1					1
Mobile type												
Terminal box without cable												
Ex d – Execution												
Housing width 45 mm												
Coil internal diameter 18 mm												
Coil length 60 mm												
Standard nominal voltage	12 VDC	G 12		2	30	VDC	G	230				
range U _N :	24 VAC	R 24	.,	2	230	VAC	R	230				
Standard nominal power range P _N	9 W	L9			2	21 V	/ [L:	21				
Design-Index (Subject to change)												

DIMENSIONS





CHARACTERISTICS		12 VDC					
Coil winding isolation clas	s H	Nominal power (W)	9	12	15	21	
Protection class		Nominal resistance (Ω)	16,5	13,5	9,9	7,1	
in acc. EN 60529	IP65/67, with corresponding cable gland	Recommended calculation	1600	2000	2'500	4'000	
	and correct installation	voltage for fuse inserts (mA)					
Relative duty factor	100 % DF, combined with armature tube	Limiting current (mA)	610	720	960	1'230	
SE ESPONSE E ESTA SERVE L'ENCIRE LA CONTRACT DE CONTRA	and valve	(Proportional function)	84000				
Reference temperature	Execution L9:						
	-25+40°C (operation as T1T6/T80°C)	24 VDC					
	-25+90°C (operation as T1T4/T130°C)	Nominal power (W)	9	12	15	21	
	Execution L15 / L12:	Nominal resistance (Ω)	64	49.2	38.5	27,5	
	-25+70°C (operation as T1T4/T130°C)	Recommended calculation	800	800	1'250	2'000	
	Execution L 21:	voltage for fuse inserts (mA)					
	-25+50°C (operation as T1T4/T130°C)	Limiting current (mA)	300	370	450	600	
Housing	Steel housing, zinc-/nickel-coated	(Proportional function)					
Relative duty factor	max. 95% (not dew-forming)	V. N. F 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.					
Corrosion protection Salt spray test in accordance with		115 VAC					
	EN ISO 9227 > = 400 hours	Nominal power (W)	9	12	15	21	
Maximum operating		Nominal resistance (Ω)	1'180	869	700	500	
voltage	Nominal voltage +10 %	Recommended calculation	200	200	315	400	
Nominal frequency	in acc. with name plate ±2%	voltage for fuse inserts (mA)					
Standard	U _N = 12 VDC	Tollago for faco mocito (ilini)					
nominal voltages	U _N = 24 VDC		2	230 VAC			
	U _N = 115 VAC	Nominal power (W)	9	12	15	21	
	U _N = 230 VAC	Nominal resistance (Ω)	4'750	3'370	2'850	2'050	
	Other nominal voltages in the ranges of	Recommended calculation	100	100	160	200	
	12-230 VDC and 24-230 VAC on request	voltage for fuse inserts (mA)	,,,,,				
Standard	P _N = 9 W	Total go Total Moorto (TIV t)					
nominal powers	P _N = 15 W						
nominal ponoro	$P_N = 21 W$						

OPERATION SECURITY



The solenoid coil must only be put into operation, if the requirements of the operating instructions supplied are observed to their full extent.

In case of non-observance, no liability can be assumed.

A corresponding fuse in accordance with its design current has to be connected in series as short-circuit protection for every solenoid coil..

INSTALLATION

For stack assembly please observe the remarks in the operating instructions.

ACCESSORIES

- The operating instructions incl. the EC declaration of conformity for solenoid coils of the type MKY45/18 x60 is supplied in German, English and French (download under www.wandfluh.com)
- EC-type examination certificate: PTB 07 ATEX 1023 (download under www.wandfluh.com)
- EC-declaration of conformity (download under www.wandfluh.com)
- Recognition of production quality assurance PTB 07 ATEX Q006 (download under www.wandfluh.com)