Heater

Specification

Translation, Original German

ELMESS THERMO SYSTEM TECHNIK

Client	Impexron GmbH	Date	13.08.2026	*Rev00*
Fabric No.	26-0927 - 001	Piece	1	
Order No. / Position	02-26-0927 - 1	Client details		
Article No.	60015583			
Name	Ex-Flanged Heater	Type	**DHF22C14StD-58-T5**	

1 Degree of Protection IEC/EN 60529		IP 66			
2 Ex Marking and Type of Protection					
IEC/EN 60079		(Ex) II 2G Ex db IIB + H2 T5 Gb			
IEC/EN 60079-31					
EU Type Examination Certificate | IECEx Certificate		IBExU 15 ATEX 1019 X		----	
EU Declaration of Conformity		ELM 20-003			
3 Electrical data and connection					
Power groups	E1	Complete	Group 1	Group 2	
Rated power		58 kW	29 kW	29 kW	
Rated current			42 A	42 A	
Device protection			63 A	63 A	
Rated short-time withstand current (1 sec.)		I_{CW} 0,8 kA			
Rated voltage		400 V 3/PE 50/60 Hz			
Specific surface load		3,5 W/cm²			
Control circuit temperature monitoring		max. 10 A; 230 V 1/N/PE 50/60 Hz			
Control circuit additional monitoring devices		----			
Anti condensation heater	E2	----			
Connection diagram		60015583			
Connection cross section power circuit		16 mm²			
Connection cross section control circuit		max. 4 mm²			
Cable entry power circuit / material		2x M32x1,5; for cable-ø 18…22 mm	/ brass DKM32a10	tightening torque: 20 Nm	
Cable entry power circuit / material		----			
Cable entry control circuit / material		1x M25x1,5; for cable-ø 13…17 mm	/ brass DKM25a08	tightening torque: 15 Nm	
Cable entry anti condensation heater / material		----			
4 Protection system					
Temperature monitoring	B1	TL = 100 °C - effective on medium temperature			
Isolation resp. residual current device		necessary			
Level monitoring device	B3	at site to build close to the heater, adjusted at 50 mm minimum overlap			
Additional monitoring devices or sensors					
Temperature monitor, regulators	B2	TR = 0…100 °C, adjustable 0…70 °C - effective on medium temperature			
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5 Dimensions					
Dimension sheet / drawing		60015583			
Installation length L		950 mm			
Unheated length Lu		300 mm			
Temperature reduct. length Lt		----			
Heating bundle diameter		195 mm			
Distance of sheets		440 mm			
Flange		ASME B16.5 Cl.150 8" RF			
6 Material & Surface					
Heating elements		1.4541	metallic bright		
Cartridge pipe		----	----		
Flange		1.4541	metallic bright		
Connection enclosure		C-Steel	varnished with	Hammerschlag	
7 Operation data					
Medium / flow rate		Water / Acetylene-Glycol (80/20)	/ ----		
Operating pressure		max. 7 bar g			
Working temperature		ca.65 °C / max.70 °C			
Ambient temperature / max. housing temperature		-20 ... +40 °C	/ ----		
Mounting position		in aggregate, tank or container; Heater horizontal; "TOP" is marked; cable glands from bottom side; H 180, V 90			
8 Design data					
Design code		PED 2014/68/EU, AD 2000			
Allowable operating pressure		10 bar g			
Allowable temperature min. / max.		-20 / +100 °C			
Fluid group / diagram		2 / 4			
Category / module		suitable for mounting in pressure vessels up to Category IV			
Inspection / material certificate / report		TÜV / EN 10204-3.1	/ 26-0927 - 1		
9 Documentation					
Language		german	/ english	/ ----	
Operation manual		DH...; EH...			
10 Remarks		Replacement for fab.-Nr.:806053/001 // year of construction 2007			
11 Internal remarks		Test pressure: 14,3 bar g			
Heating elements: pieces; shape; wiring; type		48 H; YP; NR 198V 34G / 1200W / 230V			
Solder / welding filler / heating elements diameter		A 314 / 1.4576 / 8,5 mm			
In charge / Project team		Mr. Lemmermann	Mr. Dreblow	Mr. Drögemüller	