

Flame Proof Thruster FLP-23/5 (IIC)



Introduction

Flame-proof Thrusters are specially designed for operation in hazardous atmosphere (Zonal areas) Gas groups IIC. Construction of Flame Proof Thruster is modified to meet the requirements as specified on IS/IEC-60079-0-2007 & IS/IEC-60079-1-2007. The Terminal box is also re-designed to provide for the molded terminal studs to most of the industrial applications.

Features

- Compact and Light weight.
- Elegant design.
- Reliable and maintenance free operation.
- Low noise, does not emit electrical disturbances.
- Suitable for out-door installation.
- Low power input.
- Up to 720 operations per hour.
- Easy Mounting and dismounting.
- Bi-direction operation.

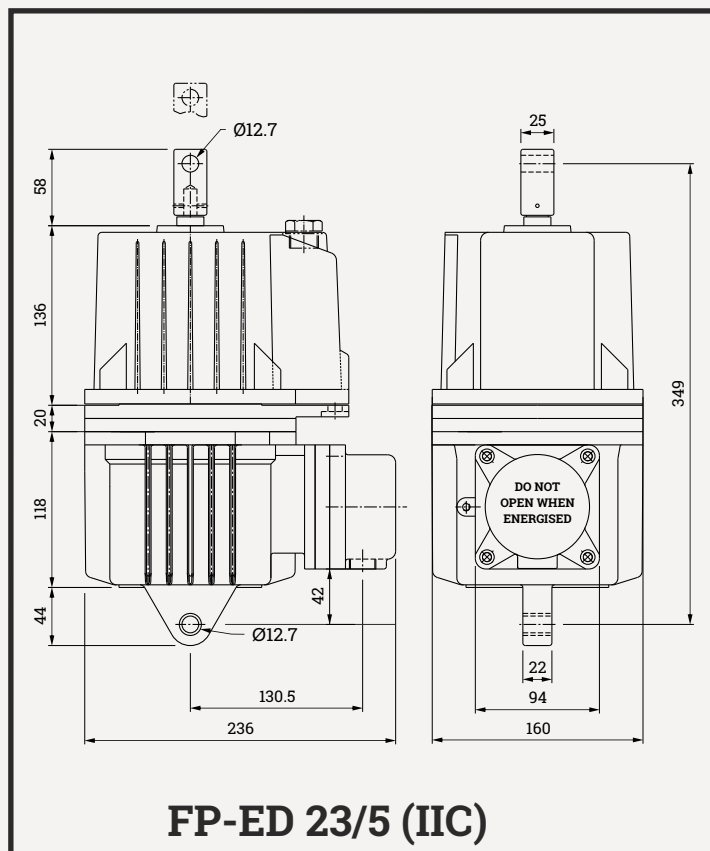


**Flame Proof Electro Hydraulic Thrusters
Type - FLP 23/5 (IIC)**

Petroleum & Explosive Safety Organization Approved

Technical Data

Explosive Atmosphere Part I Equipment Protection by Flameproof Enclosures "d"	
Product	Thruster
Zone	IIC
Model	FLP-23/5
Voltage	415 VAC
Phase/Frequency	3 Φ , 50 c/s
Ambient Temperature	-20°C + 40°C
Enclosure	Aluminium Alloy LM 4
Ingress Protection	IP-55 IS/IEC 600529:2001
Cable Entry	M 20, 1.5 Pitch Single
IS -	IS/IEC 60079-0-2007 IS/IEC 60079-1-2007
BIS License No.	CM/L-7200042490 as per IS/IEC 60079-1-2007
Certificate No.	KLPL/Ex/IS-101 X Date: 27-10-2015 Karaadikar Laboratories
Petroleum & Explosive Safety Organization (PESO)	A/P/HQ/GJ/104/5528(P406232) Date: 17/07/2017



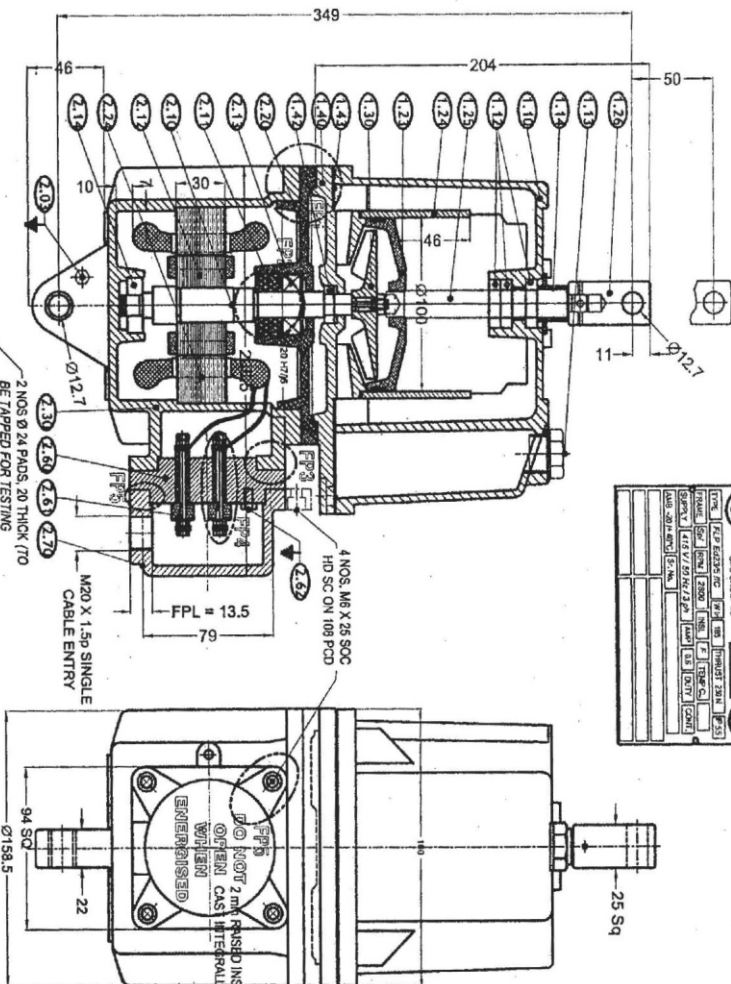
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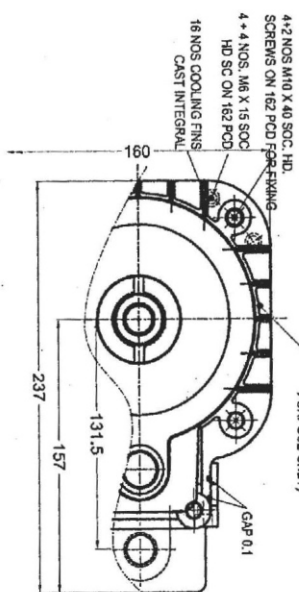
Oct, 2017

[illegible]

1. GROSS FREE VOLUME FOR MOTOR HOUSING	~ 1330 C.C.
2. MAX. FREE VOLUME (AT 30 mm C.I.)	~ 1010 C.C.
3. NET FREE VOLUME INSIDE T. BOX.	<= 90 C.C.
4. RADIAL AIR GAP	0.20 _(0.04) mm

COMPOSITION OF ALUMINUM ALLOY - LM4 (By weight)

Copper, Cu	Titanium, Ti	Ti, Sn	Iron, Fe	Nickel, Ni	Silicon, Si
2.0-4.0%	0.2%	0.10%	0.80%	0.30%	4.0-6.018%
Lead, Pb	Zinc, Zn	Magnesium, Mg	Manganese, Mn	Aluminum, Al	
0.10%	0.20%	0.50%	0.20-0.60%	87.0-91.4%	

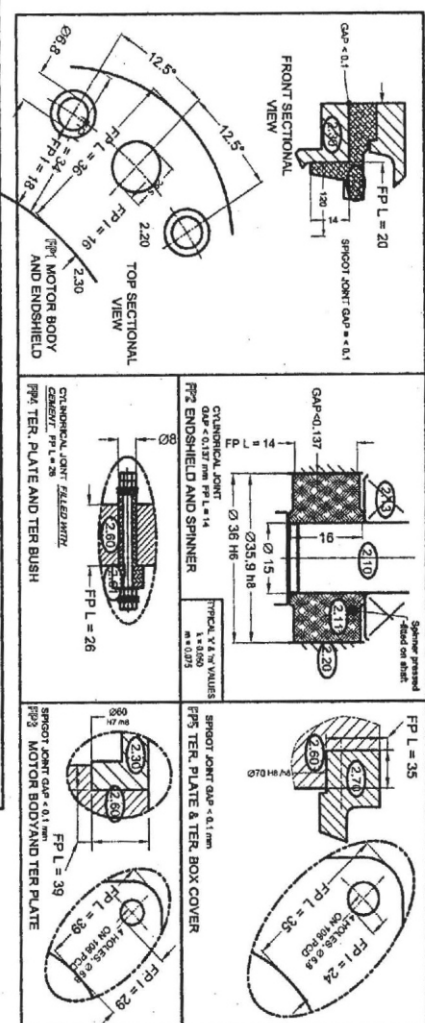


FIXING HARDWARE DETAILS

- | | | |
|-----------------------------------|------------------------|-----------|
| 1 BODY, TER PLATE & TER BOX COVER | M6 X 25L SOC HD SCREW | 4 NOS |
| 2 BODY & END SHIELD | M6 X 15L SOC HD SCREW | 8 NOS |
| 1 MOTOR TO THRUSTER UNIT | M10 X 40L SOC HD SCREW | 4 + 2 NOS |

GENERAL NOTES AND DECLARATIONS:

1. All dimensions in the drawing are in millimeters.
2. Flame-path lengths and gaps are in accordance with IS / IEC 60079-1(2007).
3. General constructional details, selection of materials, processes, tolerances, Degrees of Protection, fixing hardware etc are in accordance with IS / IEC 60079-0(2007)
4. Fixing hardware like Screws bolts etc are of Property Class (T.S. 800 MPa) as per ISO-965 -1 & 3 (1980) and are of Metric sizes of medium pitch (ISO -262) and clearance holes are as per ISO-273 and of Ljmlite & Fits are 6g / 6H ISO -286 Part II.
5. Name plate made of Aluminium Anodised & are fixed with hammer driven rivets.



APPROVED DRAWING

KARANDHIKAR LABORATORIES PVT. LTD
CERTIFICATE No.: KPL/EX/15-1011
DATE: 07TH

SPEED-O-CONTROL P. LTD
Mumbai - 400072

Issue Date	Material	Reference: IS/IEC 60079-1:2007, IS/IEC 60079-0:2007	Patent No.
30.06.2012	VARIOUS	Assembly No.:	
Design	Karkare	Customer:	
Drawn	Raju	Title	Part No.
		FLAME-PROOF MOTOR FOR THRUSTER TYPE - FLP 2315 IIC GAS GROUP IIC	
		Dwg No. FLP 2315 IIC - 0.01A	Sheet No