



DEHDASHT PETROCHEMICAL INDUSTRY COMPANY  
DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT



Contract No.: DPIC/98-12

DOCUMENT TITLE: Main Motor Data Sheet and Curve

POI: IFA

Rev.: D1

DOCUMENT No: DPIC9812-000-VD-1002-ME-DS-0042

Sheet 1 of 4

## Main Motor Data Sheet and Curve

Main motor data sheet is not complete and there is no motor performance curves

### PURCHASER'S COMMENT/APPROVAL STATUS

Purchaser: NARGAN

1	AP: Approved (Released for Manufacturing)
2	AN: Approved With Minor Comments (Fabrication may Proceed)
X	NF: Approved With Comments (Fabrication not Proceed)
4	RJ: Rejected
5	NR: Not be Returned

Requisition No.: DPIC98-12-001-000-ME-MR-4150-0001-D1

Item No. (Tag No.): PK-6101

Vendor Doc. No.: DPIC9812-000-VD-1002-ME-DS-0042

Date: 06.03.2022

Signature: A.AB



REV.	DATE ISSUE	Purpose of Issue	PREPARED	CHECKED	APPROVED
D1	21-Feb-22	IFA	NA.PR	M.M	A.V
D0	23-Jan-22	IFA	NA.PR	M.M	A.V



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Technical data sheet

Technisches Datenblatt

To be ensure the compressor will be started succeccfully

Three-phase induction motor with squirrel cage rotor  
Drehstromasynchronmotor mit Kurzschlußläufer

Electrical data / Elektrische Daten

Rated motor power / Bemessungsleistung	kW	1340		
Rated motor voltage / Bemessungsspannung	V	Y	6000	
Rated voltage tolerance / Bemessungsspannungsbereich	Zone A (V: ±5%; f: ±2%)			
Rated frequency / Bemessungsfrequenz	Hz	50		
Number of poles / Polzahl	2			
Rated motor speed / Bemessungsdrehzahl	rpm	2980		
Rated motor current / Bemessungsstrom	A	149		
Power factor / Leistungsfaktor (at / bei 100% - 75% - 50%)		0,90	0,89	0,84
Efficiency / Wirkungsgrad (at / bei 100% - 75% - 50%)		96,1%	96,2%	95,6%
Breakdown-/Rated torque / Kipp-/Bemessungsmoment (Tb/Tn)		2,5		
Starting-/Rated torque / Anzugs-/Bemessungsmoment (Ts/Tn)		0,6		
Starting-/Rated current / Anzugs-/Bemessungsstrom (Is/In)		5,5		

Mechanical data / Mechanische Daten

Weight / Gewicht	kg	5100±5%		
Rotor inertia / Rotorträgheitsmoment	kgm <sup>2</sup>	16,0		
Direction of rotation (from DE side) / Drehrichtung (von A-Seite)		clockwise / rechts		
Balance / Wuchtart		Half-key / Halbkeil		
Vibration grade / Schwinggrößenstufe		A		
Bearing / Lagerart		Sleeve bearings with self lubrication		
Bearing type DE / Lagertyp AS		to be defined in next Revision		
Oil content DE / Öl-Inhalt AS	l	to be defined in next Revision		
Bearing type NDE / Lagertyp BS		to be defined in next Revision		
Oil content NDE / Öl-Inhalt BS	l	to be defined in next Revision		
Lubricating oil / Schmieröl		to be defined in next Revision		

General data / Allgemeine Daten

Frame size / Baugröße		450		
Type of construction / Bauform		IM B3		
Material of housing / Gehäusematerial		Welded steel / Stahl geschweißt		
Material of terminal box / Klemmenkastenmaterial		Welded steel / Stahl geschweißt		
Degree of protection / Schutzart		IP55		
Method of cooling / Kühlart		IC611		
Thermal class - temperature rise / Wärmeklasse - Erwärmung		F/B		
Duty type / Betriebsart		S1		
Sound pressure level, no load at 1 m / Schalldruckpegel, Leerlauf bei 1 m	dB(A)	78+3		
Painting / Anstrich		RAL 5010		
Standards / Normen		EN 60034-1; EN 60079-0; EN 60079-7		
Ex-Protection / Ex-Schutz		Ex ec IIC T3 Gc		

Site conditions / Aufstellbedingungen

Ambient temperature / Umgebungstemperatur (min / max)	°C	-4	+48	
Max. altitude above sea level / Max. Höhe über NHN	m	1000		

Accessories / Zubehör

Thermal protection / Temperaturüberwachung		6 + 2 x PT100 / PT100		
Space heater / Stillstandsheizung	V	220-240	W	
Space heater bearings / Stillstandsheizung Lager	V		W	

The rating plate values may vary from the calculated values. / Abweichungen zwischen berechneten und Leistungsschilddaten sind möglich.



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Technical data sheet  
Technisches Datenblatt

Winding: 6 x RTD's Pt100 ohms at 0°C, 2 to 4-wire, with transmitters (2/phase)  
Bearings: 2 x double RTD's Pt100 ohms at 0°C, 2 to 4-wire, with transmitters (1/bearing)  
Space heater: 220-240V, 1ph , a.c.  
Number of consecutive starts cold/hot: 3/2  
Starting method: DOL  
Application: screw compressor