

Hydraulic Power Unit Electric Driven Specification

Hydraulic Power Pack – DMES-HPP-007 (Electric Driven) Specification

HYDRAULIC POWER PACK DMES-HPP-007



COMPRESSOR CONTROL PANEL



6 5 4 3 2 1

- | | |
|---------------------|------------------------|
| 1 Main Switch | 7 Start / Purge |
| 2 Emergency Stop | 8 Hour Meter / Display |
| 3 Pressure Gauge | 9 Manual Drain |
| 4 Service Indicator | 10 Auto Drain |
| 5 Warning Indicator | 11 B-Timer |
| 6 High Temperature | 12 Compressor Reset |

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Item	Value
Manufacturer	Salt Hydraulics
Serial Number (Plant)	DMES-HPP-007
Motor	3 PH Induction Motor
Power	15 kW / 20 Hp
RPM	3300–3900
Flow	60 L/min
Working Pressure	50–250 bar

Dimensions

Item	Value
Length	1250 mm / 125 cm
Width	1000 mm / 100 cm
Height	1550 mm / 155 cm

Drive Motor Features

Item	Value
Frame	160 L
Output	15 kW / 20 Hp
Number of Poles	4
Frequency	50/60 Hz

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Drive Motor Features

Item	Value
Rated Speed	1475 rpm
Slip	1.67 %
Rated Voltage	400/690 V
Rated Current	28.3 / 16.4 A
L.R. Amperes	198 / 115 A
LRC	7.0
No Load Current	13.0 / 7.54 A
Rated Torque	9.91 kgfm
Locked Rotor Torque	270 %
Breakdown Torque	300 %
Locked Rotor Time	19 s (cold), 11 s (hot)
Moment of Inertia (J)	0.1534 kgm ²
Design	N
Insulation Class	F
Service Factor	1.00
Temperature Rise	80 K
Duty Cycle	S1
Starting Method	Direct On Line
Ambient Temperature	-20°C to +40°C
Altitude	1000 m.a.s.l
Degree of Protection	IP55

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Drive Motor Features

Item	Value
Enclosure	IC411 – TEFC
Mounting	B3R E
Rotation	Both CW and CCW
Noise Level	61.0 dB(A)
Approx. Weight	147 Kg

Efficiency

Load	Efficiency
50 %	92.0 %
75 %	92.5 %
100 %	92.3 %

Power Factor

Load	Power Factor
50 %	0.66
75 %	0.77
100 %	0.83

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Motor Features

Item	Value
Frame Material	Cast Iron
Impregnation	2 × M40 × 1.5
Terminal Block	BMC – 6 pins
Shaft Locking Device	Without
Shaft Material	SAE 1040 / 45 Carbon Steel
Painting	RAL 5009 203 A (ISO 12944-C3)
Grounding Lugs	Single
Fan Cover Material	Cast Iron
Tropicalized Painting	Without
Bearing Cap	Yes – Bearing Cap
Winding Thermal Protection	Thermistor – 2 wires, 1 per phase, 155°C
Balancing Method	½ Key
Drip Cover	Without
Overload Protector (phenolic)	Without overload protector
Connection Cables Quantity	6
Fan Material	Plastic
Screw Cap	Stainless Steel AISI 316 L
NDE Bearing Seal	V' Ring
DE Bearing Seal	V' Ring
Cable Press Material	Sem

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Hydraulic Pump

Item	Value
Manufacturer	Bosch Rexroth
Model	A10VSO Series 31
Type	Axial Piston Variable Pump
Flow	18 to 100 Ltr
Nominal Pressure	280 bar
Maximum Pressure	350 bar

Hydraulic Pump Features

Open Circuit.

Variable pump with axial piston rotary group in swashplate design for hydrostatic drives in open circuit.

Flow is proportional to drive speed and displacement.

The flow can be infinitely varied by adjusting the swashplate.

2 drain ports.

Excellent suction characteristics.

Low noise level.

Long service life.

Good power to weight ratio.

Versatile controller range.

Short control time.

The through drive is suitable for adding gear pumps and axial piston pumps up to the same size i.e., 100 % through drive.

Suitable for operation with mineral oil and HF hydraulic fluids.



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Hydraulic Fluids

The A10VSO variable pump is designed for operation with HLP mineral oil according to DIN 51524-2.

90220: Hydraulic fluids based on mineral oils and related hydrocarbons.

90221: Environmentally acceptable hydraulic fluids.

90222: Fire-resistant, water-free hydraulic fluids (HFDR/HFDU) (for permissible technical data, see data sheet).

90225: Limited technical data for operation with water-free and water-containing fire resistant hydraulic fluids (HFDR, HFDU, HFB, HFC).

90245: Bosch Rexroth Fluid Rating List for Rexroth hydraulic components (Pumps and Motors).
