

DMES-HPP-007 (ELECTRIC DRIVEN)



Hydraulic Power Pack-Specification

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

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

Drive Motor Features

Frame	:	160 L
Output	:	15 kW / 20 Hp
Number of Poles	:	4

Hydraulic Power Unit Electric Driven-Specification

Frequency	: 50/60 Hz		
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		
L R C	: 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	: 19s (cold) 11s (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 pf Protection	: IP 55		
Enclosure	: IC411 – TEFC		
Mounting	: B 3 R €		
Rotation ¹	: Both CW and CCW		
Noise level ²	: 61.0 dB (A)		
Approx. weight ³	: 147 Kg		

Efficiency

50 % - 92.0	75 % - 92.5	100 % - 92.3
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Power Factor

50 % - 0.66	75 % - 0.77	100 % - 0.83
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Features

Frame Material	:	Cast Iron
Impregnation	:	2 x M 40 x 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

Hydraulic Pump

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

Features

➤ Open Circuit
➤ Variable pump with axial piston rotary group inn 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,

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 \(Pumps and Motors\)](#)