

Ceramic-Hybrid Bearings 4X0100

Cooling Capacity = 16600 Watt
Grease Bearings Lubrication

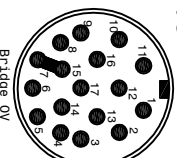
- 1-Coolant inlet (G1/2") (n°2 holes) (3÷4 bar) (35 l/min.)
- 2-Coolant outlet (G1/2") (n°2 holes)
- 3-Hydraulic pressure unclamping tool (min 80bar - max 90bar) (G1/4") (66 cm³)
- 4-Hydraulic pressure clamping tool (Return piston) (10bar max) (G1/4") (38 cm³)
- 5-Electric connection (L=300)
- 3 Phases motor - Earth
- 5/a Phase U1-U3 n°2 cables 25mm²-09
- 5/b Phase W1-W3 n°2 cables 25mm²-09
- 5/c Phase V1-V3 n°2 cables 25mm²-09
- 5/d Earth n°2 cables 16mm²-07
- 6-Outlet sensor's cables (S1-S2-S4) (L=300mm)
- S1 PNP = Toolholders clamped.
- S2 PNP = Piston under pressure ready to receive tools arbor.
- The electrospindle can not turn.
- S4 PNP = Toolholders not clamped.
- The electrospindle cannot turn.
- S7 = Sensor shaft to block
- S2 = Sensor shaft to block
- PT 100 bearing temperature sensor
- 7-Front slide pressurization filtered (5µm)
- 8-Tool cooling water (G1/8") (63/8") (20 bar)
- 9-Tool cooling water lubrication -1 (G1/8")
- 10-Front Bearings Lubrication -2 (G1/8")
- 11-Rear Bearings Lubrication (G1/8")
- 12-Unload Lubrication bearings (G1/4") through aspiration type Festo VAD 1/4(6 bar)
- 15-outlet encoder's cables (Gel 2444 KN) (L=300mm)
- 17-Tool's Lubro refrigerant inlet by rotary (80 bar) joint (G1/4")
- Inlet air arbor's cleaning (6 bar)
- 18-Rotary joint Leakage outlet (G1/8")
- 21-Oil inlet to block the shaft (60bar) (G1/4")
- 22-Oil inlet to unlock the shaft (60bar) (G1/4")

System to block the shaft by Hirt gear
With n°12 blocking positions

PT 100 Bearings temperature sensor

Encoder L4B GEL 2444 KN
1Vpp - z=512 - m=03

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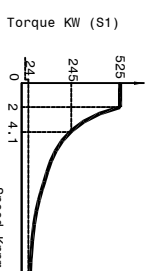
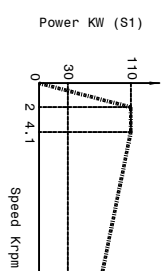
- 1 white A+
- 2 brown A-
- 3 grey Ref+
- 4 not connected
- 5 not connected
- 6 not connected
- 7 blue OV
- 8 white-red thermal switch PT1000
- 9 white-red thermal switch PT1000
- 10 red +5V Dc
- 11 pink B+
- 12 black B-
- 13 yellow Ref-
- 14 not connected
- 15 blue OV
- 16 green SV sensor
- 17 not connected

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- 1 brown +24 V DC
- 2 blue 0 V DC
- 3 black S1 signal
- 4 black S2 signal
- 5 not connected
- 6 black S4 signal
- 7 black S7 signal
- 8 black S8 signal
- 9 not connected
- 10 not connected
- 11 not connected
- 12 PT 100

SPEED	RPM	2000	4100	12000
FREQUENCY	Hz	135	280	800
POWER (S1)	KW	110	110	30
TORQUE (S1)	Nm	528	245	26
TENSION (S1)	V	380	380	380
CURRENT (S1)	A	216	211	64



Asynchronous motor: 8 poles
Runout taper: 0.002mm

Peron Speed
SUBJECT: PSI TCV - T - 302
CUSTOMER:

Sheet: 1/1
Dls. n° 6251-00
DATE: 19/08/2022

Tool Holder HSK-A100
DIN 69893

Tool holder ISO/BT 50

