



Customer information packet

CSPM4104T

30HP, 1780RPM, 3PH, 60HZ, 286T, 1076M, TEFC, F1

Class - CLI GP A,B,C,D CLII GP F,G

Division - Division II

Specifications

Enclosure	TEFC
Frame	286T
Frame Material	Cast Iron
Frequency	60.00 Hz
Haz Area Class and Group	CL I GP A,B,C,D CLII GP F,G
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA CURUSEEV NEMA_PREMIUM WEEE
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	35.000 A @ 460.0 V 70.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3B

Part detail

Revision	A
Type	AC
Mech. spec.	10T015
Base	
Status	PRD/A
Elec. spec.	10WGZ889
Layout	10LYT015
Eff. date	11-03-2025
CD Diagram	CD0005
Poles	04
Leads	9#10 Y
Proprietary	False
Created date	11-05-2024

Heater Indicator	No Heater
High Voltage Full Load Amps	35.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1076M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.00 IN
Power Factor	83
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1780 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

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AC Induction Motor Performance Data

Record # 105265

Typical performance - not guaranteed values

Winding: 10WGZ889-R001			Type: 1076M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		30	Full Load Torque		88.47 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		72/36	Breakdown Torque		319 LB-FT		
R.P.M.		1780	Pull-up Torque		187 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		212 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		316 A
Service Factor (S.F.)		1.15		No-load Current		14.6 A	
NEMA Nom. Eff.		94.5	Power Factor	82	Line-line Res. @ 25°C		0.20701 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		43°C	
S.F. Amps				Temp. Rise @ S.F. Load		51°C	
				Locked-rotor Power Factor		30.9	

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	68	78	83	85	86	84
Efficiency	90.4	93.9	94.7	94.6	94.3	93.7	94.4
Speed	1794.6	1790.2	1785	1779.9	1775.2	1770.3	1777
Line amperes	16.9	21.9	28.4	35.7	43.6	52.1	40.4

ABB Motors and Mechanical Inc.

WINDING # 10WZ889

Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 1780 RPM 460 V 1076M

TORQUES (LB-FT): PO=319 PU=187 LR=212 LRA=316





