



Customer information packet

ECTM4100T-G

15HP, 1175RPM, 3PH, 60HZ, 284T, 1046M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	284T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
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	42.000 A @ 230.0 V 42.000 A @ 208.0 V 21.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	Tapped & Key

Part detail

Revision	J
Type	AC
Mech. spec.	10T010
Base	
Status	PRD/A
Elec. spec.	10WGY561
Layout	10LYT010
Eff. date	11-03-2025
CD Diagram	CD0180
Poles	06
Leads	9#10
Proprietary	False
Created date	04-13-2022

Heater Indicator	Heater Included, 115 V
High Voltage Full Load Amps	21.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1046M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	27.57 IN
Power Factor	73
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1175 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

Nameplate

NP1260													
CAT.NO.	ECTM4100T-G												
SPEC.	10T010Y561G1												
HP	15												
VOLTS	230/460												
AMP	42/21												
RPM	1175												
FRAME	284T		HZ	60		PH		3					
SER.F.	1.15		CODE	H	DES	A		CL	F				
NEMA-NOM-EFF	91.7		PF	73									
RATING	40C AMB-CONT												
CC	010A												
DE	6311		ODE	6309									
ENCL	TEFC		SN										
	INV DUTY 20:1VT												

AC Induction Motor Performance Data

Record # 29743

Typical performance - not guaranteed values

Winding: 10WGY561-R001			Type: 1046M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		15	Full Load Torque		66.68 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		42/21	Breakdown Torque		213 LB-FT		
R.P.M.		1175	Pull-up Torque		93.1 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		114 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		144 A
Service Factor (S.F.)		1.15	No-load Current		12.4 A		
NEMA Nom. Eff.		91.7	Power Factor	73	Line-line Res. @ 25°C		0.502 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		32.9
					Rotor inertia		5.63 LB-FT2

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	52	65	72	76	78	75
Efficiency	83	89.4	91.3	91.7	91.4	90.8	91.7
Speed	1196	1193	1189	1185	1181	1177	1181
Line amperes	13.2	15.1	17.9	21.3	25.3	29.6	23.4

ABB Motors and Mechanical Inc.

WINDING # 10WGY561

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1175 RPM 460 V 1046M

TORQUES (LB-FT): PO=213 PU=93.1 LR=114 LRA=144





