



Customer information packet

CXM282542T

25//20HP, 1775//1475RPM, 3PH, 60//50HZ, 284T

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	284TC
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	20.000 HP @ 50 HZ 25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV UL
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
Constant Torque Speed Range	6
Current @ Voltage	64.000 A @ 208.0 V 62.000 A @ 230.0 V 60.000 A @ 190.0 V 31.000 A @ 460.0 V 30.000 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover

Part detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGZ651
Layout	10LYE251
Eff. date	07-17-2023
CD Diagram	CD0180
Poles	04
Leads	9#10
Proprietary	False
Created date	02-17-2021

Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	30.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1054M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.61 IN
Power Factor	81
Product Family	Hazardous Location Motor
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1775 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor

Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0887XPSLEV												
NO.						CC	010A					
S/N						TEMP CODE		T3C				
SPEC.	10-0000-1976					INV.TYPE		PWM				
CAT.NO.	CXM282542T					C HP FR		60	C HP TO		90	
HP	25//20					CT HZ FROM		6	CT HZ TO		60	
VOLTS	230/460//190/380					VT HZ FROM		6	VT HZ TO		60	
AMPS	62/31//60/30				MAG CUR	13.6						
RPM	1775//1475				MX RPM	2700						
HZ	60//50	PH	3	CL	F	NOM.EFF.	93.6					
SER.F.	1.15	DES	A	SL HZ	0.8	WK2	4.13					
FRAME	284TC	RATING		40C AMB-CONT								
	NEMA MG-1 PART 5, IP54											
	1.15 SF ON SINE WAVE											

AC Induction Motor Performance Data

Record # 67490

Typical performance - not guaranteed values

Winding: 10WGZ651-R010		Type: 1054M	Enclosure: XPFC			
Nameplate Data		460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)	25//20	Full Load Torque	74.02 LB-FT			
Volts	230/460//190/380	Start Configuration	direct on line			
Full Load Amps	62/31//60/30	Breakdown Torque	262 LB-FT			
R.P.M.	1775//1475	Pull-up Torque	118 LB-FT			
Hz	60//50	Phase	3	Locked-rotor Torque	142 LB-FT	
NEMA Design Code	A	KVA Code	J	Starting Current	223 A	
Service Factor (S.F.)	1.15	No-load Current	13.6 A			
NEMA Nom. Eff.	93.6	Power Factor	81	Line-line Res. @ 25°C	0.2345 Ω	
Rating - Duty	40C	AMB-CONT	Temp. Rise @ Rated Load			51°C
S.F. Amps		Temp. Rise @ S.F. Load			61°C	
		Locked-rotor Power Factor			30.6	

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	65	76	81	84	85	83
Efficiency	88.3	92.8	93.9	94	93.7	93.1	93.8
Speed	1794.1	1789.3	1783.5	1777.8	1770.8	1763.8	1774
Line amperes	15.3	19.3	24.6	30.6	37.2	44.5	34.6

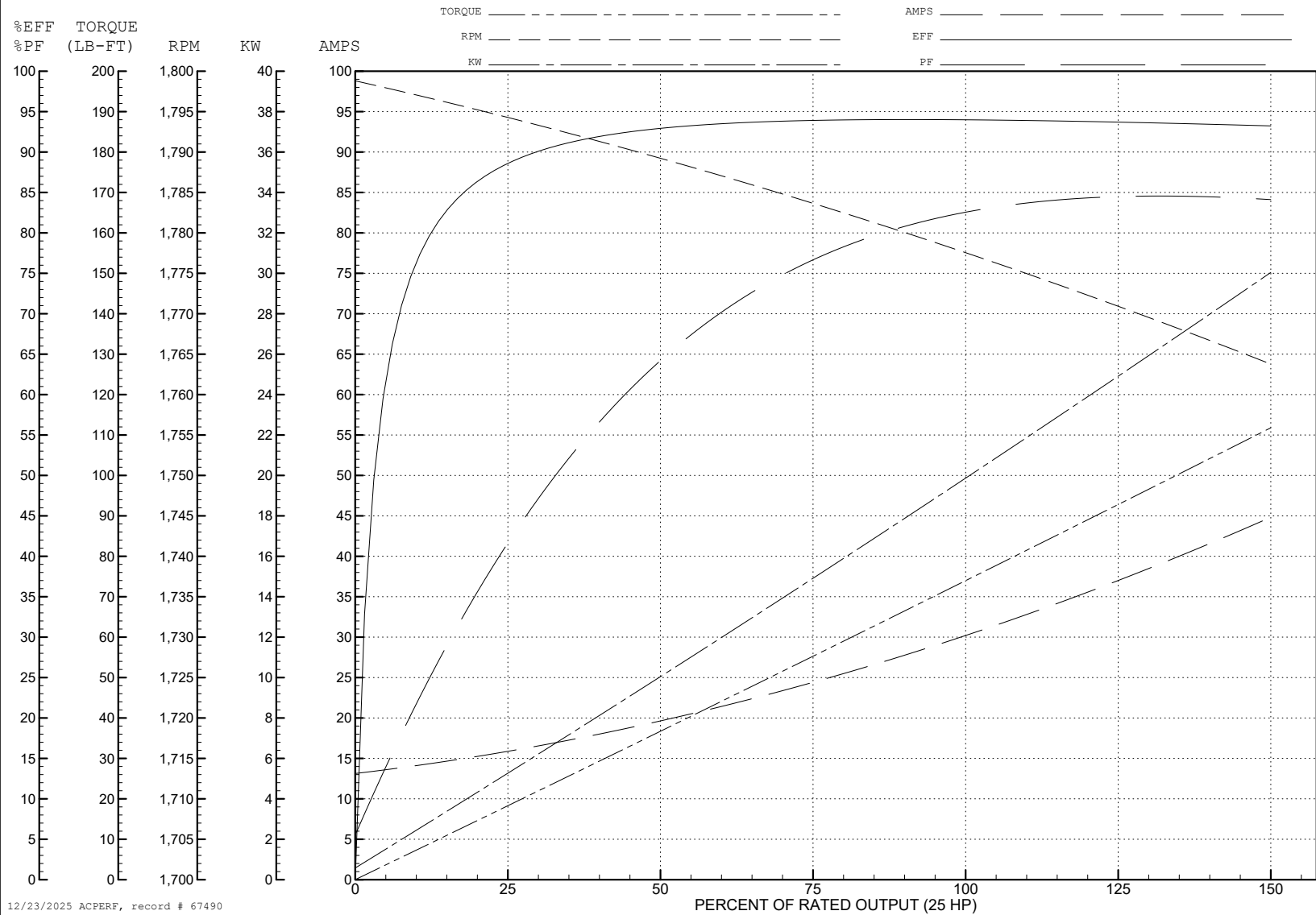
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WINDING # 10WGZ651

Typical performance - not guaranteed values.

25 HP 3 PH 60 HZ 1777.8 RPM 460 V 1054M

TORQUES (LB-FT): PO=262 PU=118 LR=142 LRA=223



AC Induction Motor Performance Data

Record # 67491

Typical performance - not guaranteed values

Winding: 10WGZ651-R010		Type: 1054M	Enclosure: XPFC		
Nameplate Data			380 V, 50 Hz: High Voltage Connection		
Rated Output (HP)	25//20	Full Load Torque	71.24 LB-FT		
Volts	230/460//190/380	Start Configuration	direct on line		
Full Load Amps	62/31//60/30	Breakdown Torque	254 LB-FT		
R.P.M.	1775//1475	Pull-up Torque	121 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque	146 LB-FT
NEMA Design Code	A	KVA Code	J	Starting Current	213 A
Service Factor (S.F.)	1.15	No-load Current	13.24 A		
NEMA Nom. Eff.	93.6	Power Factor	81	Line-line Res. @ 25°C	0.229 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	48°C		
S.F. Amps		Temp. Rise @ S.F. Load	58°C		
		Locked-rotor Power Factor	33.9		
		Rotor inertia	4.31 LB-FT2		

Load Characteristics 380 V, 50 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	66	76	82	84	85	83
Efficiency	88.8	93	93.8	93.8	93.3	93	93.5
Speed	1494	1490	1484	1479	1472	1465	1475
Line amperes	14.85	18.69	23.83	29.65	36.06	43.14	33.5

ABB Motors and Mechanical Inc.

WINDING # 10WGZ651

Typical performance - not guaranteed values.

20 HP 3 PH 50 HZ 1479 RPM 380 V 1054M

TORQUES (LB-FT): PO=254 PU=121 LR=146 LRA=213

