



Customer information packet

GNEM2515T-CI

20HP//15KW, 1775//1465RPM, 3PH, 60//50HZ, 25

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	256T
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	20.000 HP @ 60 HZ 15.000 KW @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	190.0 V @ 50 HZ 208.0 V @ 60 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	C UR US WEEE UKCA CE CURUS IE3
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	58.000 A @ 190.0 V 52.000 A @ 208.0 V 48.000 A @ 230.0 V 29.000 A @ 380.0 V

Part detail

Revision	D
Type	AC
Mech. spec.	09D01
Base	
Status	PRD/A
Elec. spec.	09WGT636
Layout	09LYD001
Eff. date	12-20-2024
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	08-15-2023

	24.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	24.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0950M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	22.38 IN
Power Factor	83
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Speed	1465 rpm
	1775 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

NP4304L									
CAT.NO.	GNEM2515T-CI								
SPEC.	09D001T636G1								
HP	20HP//15KW					PH	3		
VOLTS	208-230/460//190/380								
AMPS	52-48/24//58/29								
R.P.M. (1/MIN)	1775//1465					WT.	130		KG
FRAME	256T		HZ	60//50			I.P.	22	
SER.F.	1.15	CODE	J	DES.	A	CLASS	F		
NOM.EFF.	93//91.5		% (100%)						
P.F.	83	IC01, 10:1 VT							
RATING	40C AMB-S1 CONT				CC	010A			
DE	6309		ODE	6208					
ENCL	ODP	SN							
	SFA 58-56/28//66/33								
	IE3-50HZ 93.3(75%),92.9(50%)								
	IE3-60HZ 93.1(75%),91.8(50%)								

AC Induction Motor Performance Data

Record # 101029

Typical performance - not guaranteed values

Winding: 09WGT636-R001		Type: 0950M	Enclosure: OPEN		
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	20HP//15KW		Full Load Torque	59.89 LB-FT	
Volts	208-230/460//190/380		Start Configuration	direct on line	
Full Load Amps	52-48/24//58/29		Breakdown Torque	193 LB-FT	
R.P.M.	1775//1465		Pull-up Torque	101 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque	120 LB-FT
NEMA Design Code	A	KVA Code	J	Starting Current	180 A
Service Factor (S.F.)	1.15		No-load Current	10.37 A	
NEMA Nom. Eff.	93	Power Factor	83	Line-line Res. @ 25°C	0.377 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	37°C	
S.F. Amps	58-56/28//66/33		Temp. Rise @ S.F. Load	45°C	
			Locked-rotor Power Factor	33.1	
			Rotor inertia	2.19 lb-ft²	

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	68	78	83	85	86	84
Efficiency	89.3	92.9	93.5	93.3	92.7	91.9	92.9
Speed	1792	1786	1778	1771	1763	1754	1766
Line amperes	11.84	15.07	19.48	24.38	29.54	35.28	27.5

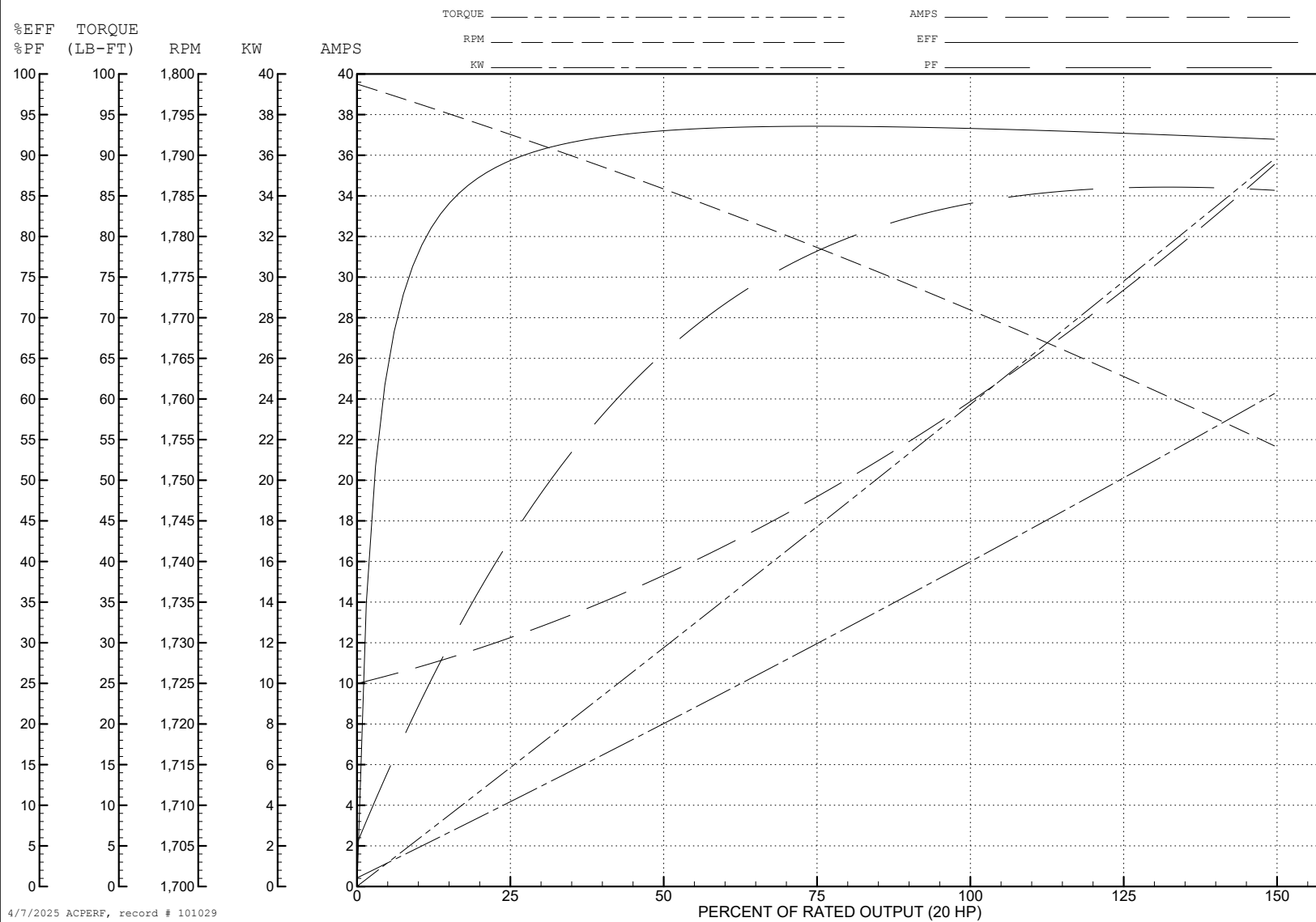
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WINDING # 09WGT636

Typical performance - not guaranteed values.

20 HP 3 PH 60 HZ 1771 RPM 460 V 0950M

TORQUES (LB-FT): PO=193 PU=101 LR=120 LRA=180



AC Induction Motor Performance Data

Record # 101030

Typical performance - not guaranteed values

Winding: 09WGT636-R001		Type: 0950M	Enclosure: OPEN			
Nameplate Data		380 V, 50 Hz: High Voltage Connection				
Rated Output (HP)	20HP//15KW	Full Load Torque	72.39 LB-FT			
Volts	208-230/460//190/380	Start Configuration	direct on line			
Full Load Amps	52-48/24//58/29	Breakdown Torque	186 LB-FT			
R.P.M.	1775//1465	Pull-up Torque	104 LB-FT			
Hz	60//50	Phase	3	Locked-rotor Torque	124 LB-FT	
NEMA Design Code	A	KVA Code	J	Starting Current	174 A	
Service Factor (S.F.)	1.15	No-load Current	10.1 A			
NEMA Nom. Eff.	93	Power Factor	83	Line-line Res. @ 25°C	0.377 Ω	
Rating - Duty	40C	AMB-CONT	Temp. Rise @ Rated Load			48°C
S.F. Amps	58-56/28//66/33	Temp. Rise @ S.F. Load			60°C	
		Locked-rotor Power Factor			36.5	
		Rotor inertia			2.19 LB-FT2	

Load Characteristics 380 V, 50 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	52	75	83	86	87	87	87
Efficiency	91.3	92.9	93.3	92.4	91.3	89.7	91.7
Speed	1491	1483	1474	1465	1454	1442	1458
Line amperes	12.06	16.42	22.24	28.69	35.58	43.4	32.8

ABB Motors and Mechanical Inc.

WINDING # 09WGT636

Typical performance - not guaranteed values.

20 HP 3 PH 50 HZ 1465 RPM 380 V 0950M

TORQUES (LB-FT): PO=186 PU=104 LR=124 LRA=174

