

ABB BALDOR RELIANCE III

Customer information packet

GNEM2515T-CI

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

Class - None

Division - Not Applicable

Specifications

Enclosure	ODP
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	1500 RPM @ 50 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	WEEE UKCA NEMA PREMIUM (OLD LOGO) NEMA PREMIUM IE3 CURUSEEV CE
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	58.000 A @ 190.0 V 52.000 A @ 208.0 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

	48.000 A @ 230.0 V
	29.000 A @ 380.0 V
	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
IP Rating	NONE
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

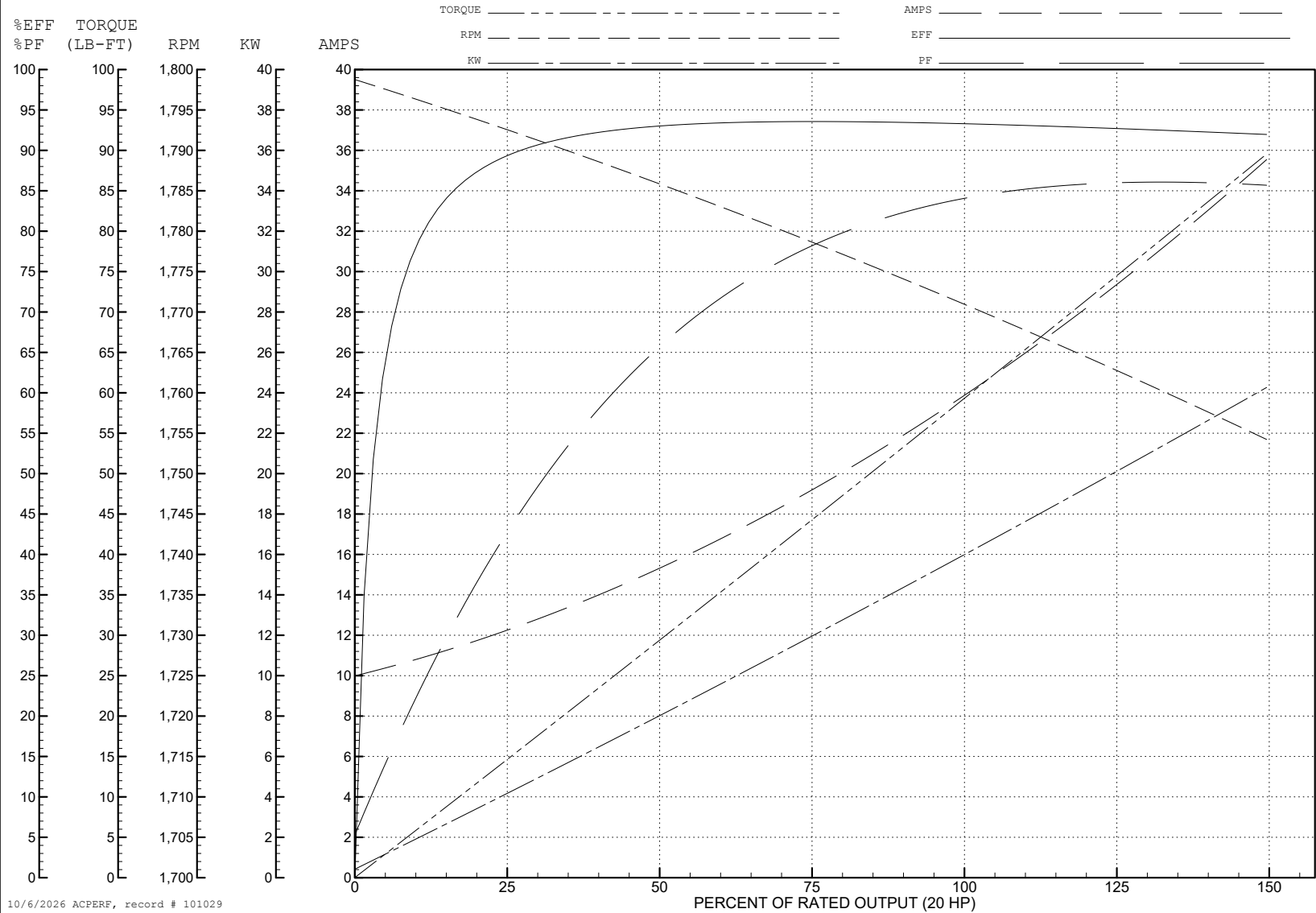
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WINDING # 09WGT636

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

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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

