

ABB BALDOR RELIANCE III

Customer information packet

GDL3770T

7.5HP, 1750RPM, 1PH, 60HZ, 215TZ, 0743LC, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215TZ
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	7.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	UR CSA
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	29.600 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	29.6 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	H
Type	AC
Mech. spec.	07N243
Base	
Status	PRD/A
Elec. spec.	07WGR851
Layout	07LYN243
Eff. date	01-02-2025
CD Diagram	CD1084
Poles	04
Leads	2#10 A PH,2#14 B PH
Proprietary	False
Created date	08-31-2015

KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Cap Box
Motor Lead Quantity/Wire Size	2 @ 10 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0743LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.45 IN
Power Factor	96
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1750 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

NP1279L									
CAT.NO.	GDL3770T								
SPEC.	07N243R851G1								
HP	7.5								
VOLTS	230								
AMP	29.6								
RPM	1750								
FRAME	215TZ		HZ	60		PH		1	
SER.F.	1.15		CODE	G	DES	L		CL	F
NEMA-NOM-EFF	85.5		PF	96					
RATING	40C AMB-CONT								
CC									
DE	6307		ODE	6206					
ENCL	TEFC		SN						

Parts List

Part number	Description	Quantity
SA306972	SA 07N243R851G1	1.000 ea
RA294248	RA 07N243R851G1	1.000 ea
OC3040F18SP	7YL OIL CAP 40MFD/370V	2.000 ea
RE5029	MARS 91423 DOUBLE POLE 230-240V CONTACTO	1.000 ea
EC1189C06SP	ELEC CAP, 189-227 MFD, 250V, 2.06D X 4.	4.000 ea
HW3201A05	3/8-16 EYEBOLT	1.000 ea
09CB3801A01	SPL CAPACITOR BOX ADAPTER	1.000 ea
09GS1003	ADAPTER GASKET MODEL 309 MOTORS	1.000 ea
19XW2520A16	SCREW,1/4-20X1 TAPTITE-II OR ROLOC 91	4.000 ea
HA7010A02	LEAD WIRE RETENTION CLAMP 2.50"	1.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 ea
37CB3804A57	CAPAC. BOX 37 MOTORS FOR 6-7 CAPAC. W/RE	1.000 ea
37GS3015	GASKET, CAPAC BOX	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 ea
51XF2520A08	SCREW, HEX SER SLT HD, ZN 1/4-20 X .50 L	2.000 ea
HA6003A47	CAPAC CLAMP	2.000 ea
HA6003A45	CAPAC CLAMP - CLIP (WHITE ZINC PLATED)	1.000 ea
51XB1016A07	10-16 X 7/16 HWSSLD SERTYB	4.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
37EP1100E09	SPL FR ENDPLATE -TEFC- L/LC	1.000 ea
13XF0832A08	8-32 X.50 PAN HD,SLTD, TYPE F SCREW, ZIN	2.000 ea
NS2605	INSULATOR FOR 37 FRAMESWITCH (MH1011A10)	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
37EP1101D15	PUEP 307 LOCKED BRG, SEAL NO DRAIN	1.000 ea
HW4600H13	SEAL 1.375 X 2.125 X 0.313 SINGLE LIP DB	1.000 ea
10XN2520A28	1/4-20X 1 3/4 HEX HD	4.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
07FH4007A07	IEC FH NO GRSSR, NOTCH @ 6:00 & 3 F/C HOL	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
51XB1214A20	12-14X1.25 HWSSLD SERTYB	1.000 ea

37CB4509	CAPAC BOX LID, STAMPED	1.000 ea
37GS3016	GASKET, CAPAC BOX LID	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	6.000 ea
HA1005A02	SLINGER, OD 2.00, ID 1.14, 206 BRG,	1.000 ea
HW4600B33	V-RING SLINGER 1.375 X 1.890 X .35 VITON	1.000 ea
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1025C02	WILKOFASST SG, 787.105, TAN	0.017 ga
37FN3002A01SP	EXFN, PLASTIC, 9.00 OD, 1.155 ID	1.000 ea
HA3104A32	THRUBOLT- 5/16-18 X12.750	4.000 ea
SP5172A06	37 TYPE L TORQ STAT SWITCH LEAD ASSEMBLY	1.000 ea
LC0017	CONN LABEL-1 PHASE-SINGLE VOLT-REV ROTNO	1.000 ea
NP1279L	ALUM FARM DUTY UL CSA CC	1.000 ea
07PA1099	PKGP CRATE OPEN 210T 28X22-1/2X17-1/2	1.000 ea
10XL3807A28	3/8-7 X 1 3/4" LAG SCREW	2.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

AC Induction Motor Performance Data

Record # 54919

Typical performance - not guaranteed values

Winding: 07WGR851-R001			Type: 0743LC		Enclosure: TEFC			
Nameplate Data			230 V, 60 Hz: Single Voltage Motor					
Rated Output (HP)		7.5	Full Load Torque		22.5 LB-FT			
Volts		230	Start Configuration		direct on line			
Full Load Amps		29.6	Breakdown Torque		63 LB-FT			
R.P.M.		1750	Pull-up Torque		43.4 LB-FT			
Hz	60	Phase	1	Locked-rotor Torque		57.6 LB-FT		
NEMA Design Code		L	KVA Code	G	Starting Current		205 A	
Service Factor (S.F.)		1.15	No-load Current		6.5 A			
NEMA Nom. Eff.		85.5	Power Factor		96	Line-line Res. @ 25°C		0.25082 Ω A Ph 0.73066 Ω B Ph
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		72°C	
S.F. Amps			Temp. Rise @ S.F. Load		89°C			

Load Characteristics 230 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	86	93	95	96	96	95	96
Efficiency	70.5	82.3	85.7	85.9	84.4	81.4	85
Speed	1788.6	1778.5	1767.2	1754.5	1739.1	1719.1	1745
Line amperes	10.1	16	22.4	29.6	37.7	47.4	34.5

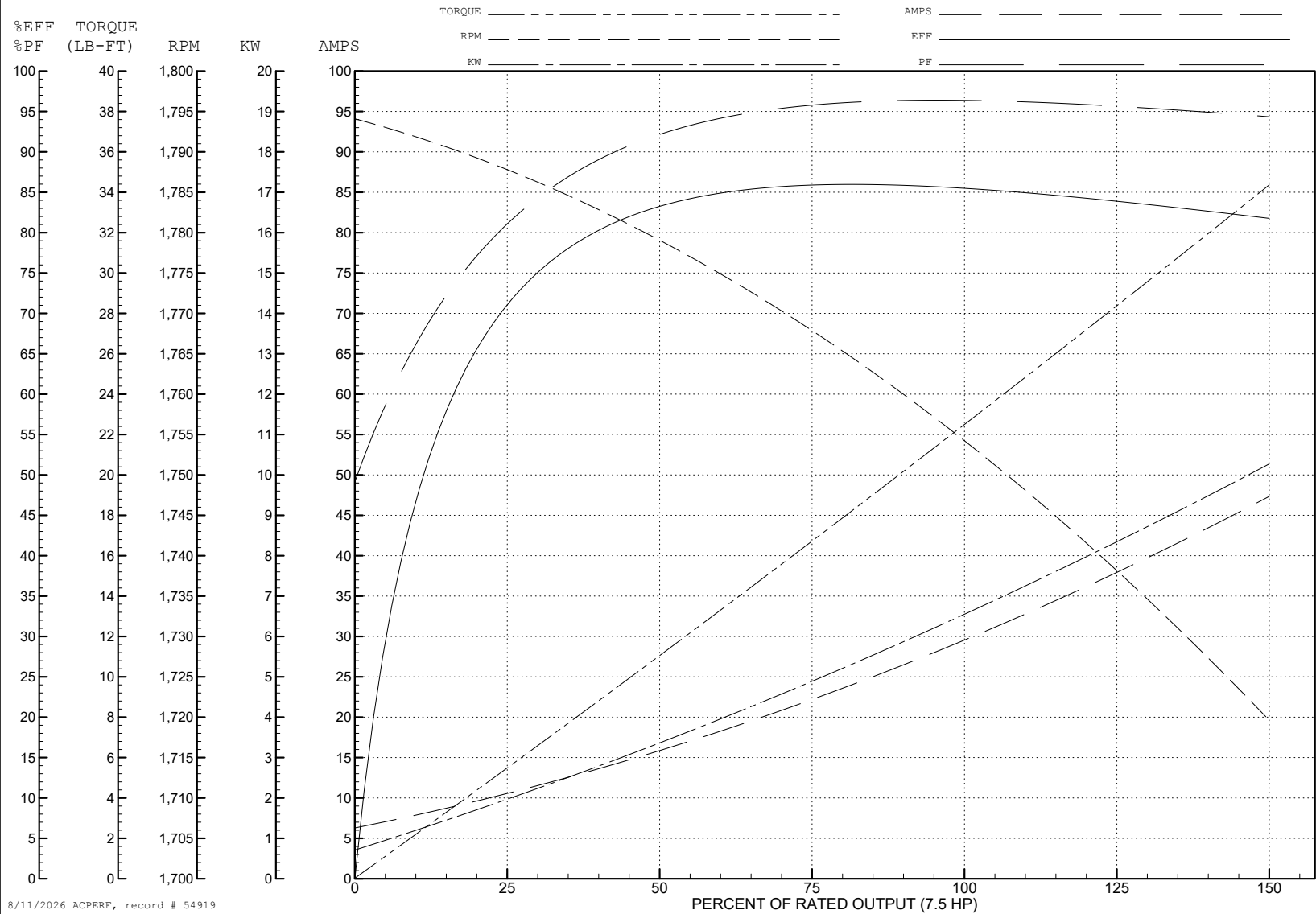
ABB Motors and Mechanical Inc.

WINDING # 07WGR851

Typical performance - not guaranteed values.

7.5 HP 1 PH 60 HZ 1750 RPM 230 V 0743LC

TORQUES (LB-FT): PO=63 PU=43.4 LR=57.6 LRA=205



8/11/2026 ACPERF, record # 54919

