

BALDOR® • RELIANCE 

Product Information Packet

ELECTRIC MOTOR WHOLESAL.COM

05E535W052G1

1HP,1750RPM,3PH,60HZ,143TC,0524M,TEBC,F1

Part Detail							
Revision:	G	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	05WGW052	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	05E535	Layout:	05LYE535	Poles:	04	Created Date:	
Base:	RG	Eff. Date:	01-10-2007	Leads:	9#18		

Specs			
Enclosure:	TEBC	Inverter Code:	Inverter Ready
Frame:	143TC	KVA Code:	M
Frame Material:	Iron	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	1.000 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 18 AWG
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Division:	Not Applicable	Motor Type:	0524M
Agency Approvals:	CSA	Mounting Arrangement:	F1
	UR	Power Factor:	78
Auxillary Box:	No Auxillary Box	Product Family:	General Purpose
Auxillary Box Lead Termination:	None	Pulley End Bearing Type:	Ball
Base Indicator:	Rigid	Pulley Face Code:	C-Face
Bearing Grease Type:	Polyrex EM (-20F +300F)	Pulley Shaft Indicator:	Standard
Blower:	115V 1-Phase EXT	Rodent Screen:	None
Current @ Voltage:	2.800 A @ 230.0 V	Shaft Extension Location:	Pulley End
	1.400 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding
Design Code:	B	Shaft Rotation:	Reversible

Drip Cover:	No Drip Cover	Shaft Slinger Indicator:	Shaft Slinger
Duty Rating:	CONT	Speed Code:	Single Speed
Electrically Isolated Bearing:	Not Electrically Isolated	Motor Standards:	NEMA
Feedback Device:	NO FEEDBACK	Starting Method:	Direct on line
Front Face Code:	Encoder/Feedback Device	Thermal Device - Bearing:	None
Front Shaft Indicator:	None	Thermal Device - Winding:	Normally Closed Thermostat
Heater Indicator:	No Heater	Vibration Sensor Indicator:	No Vibration Sensor
Insulation Class:	H	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP1162L	
CAT NO	
SPEC.	05E535W052G1
FRAME	143TC HP 1 TE
VOLTS	230/460
MAG CUR	1.6/.8 FLA 2.8/1.4
RPM	1750 RPM MAX 6000
HZ	60 PH 3 CLASS H
SER.F.	1.00 DES B SL HZ 1.64
NEMA-NOM-EFF	86.5 WK2 0.142
BLWR V	115 PH 1 HZ 60 A .5
RATING	40C AMB-CONT
DE BRG	6205 ODE BRG 6203

Parts List		
Part Number	Description	Quantity
SA073782	SA 05E535W052G1	1.000 EA
RA067501	RA 05E535W052G1	1.000 EA
06CB3000	BALDOR CONDUIT BOX CAST	1.000 EA
06GS1000	GASKET,CONDUIT BOX	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
HW3001B01	D3019 BRASS WASHER(STIMP)	1.000 EA
35EP1100B21	FRONT TEBC 203 BRG W/ GREASER & THRU-SHA	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP1329A01	PU EP ENCL 143-5TC 205 BRG W/GRSR & STD	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
HA3100A28	THRUBOLT 10-32 X 8.187	4.000 EA
10XN2520A08	1/4-20X1/2 HEX HEAD CAP	1.000 EA
HA3218A04	MALE-FEMALE STANDOFF .25-.20 .38 HEX	3.000 EA
10XN2520A04	1/4-20 X 1/4 HEX HD MACH SCREW	3.000 EA
HW1003A25	WASHER, 1/4 EX TH LK, ZN X	3.000 EA
06CB3500	BALDOR CONDUIT BOX LID	1.000 EA
06GS1001	BALDOR CONDUIT BOX GASKET	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
HA1005A05SP	SLINGER, OD 1.50, ID .659, 203 BRG	1.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
MJ5004A05	#242-21 LOCTITE GENERAL PURPOSE MED. STR	0.005 EA
85XU0407A04	#4-7 X 1/4 DRIVE PIN	2.000 EA
LB1009N	LABEL,ROTATION DIRECTION (ON ROLLS)	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
05FH5001A03	BLOWER KIT,05FH4002,EF0008,35CB3002	1.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.022 GA
LC0035B01	1PH, SV, FIX, 2 LEAD	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LB1125C01	STD (STOCK) CARTON LABEL BALDOR WITH FLA	1.000 EA
LC0145B01	CONNECTION LABEL	1.000 EA
NP1162L	SS INV UL CSA CC	1.000 EA
G7PA1000	PKG GRP, PRINT PK1034A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1100/bx) 11/14	1.000 EA
LB1417	LABEL CARTON 6X4 PERFORATED BLANK ROLLS	1.000 EA

AC Induction Motor Performance Data

Record # 20623 - Typical performance - not guaranteed values

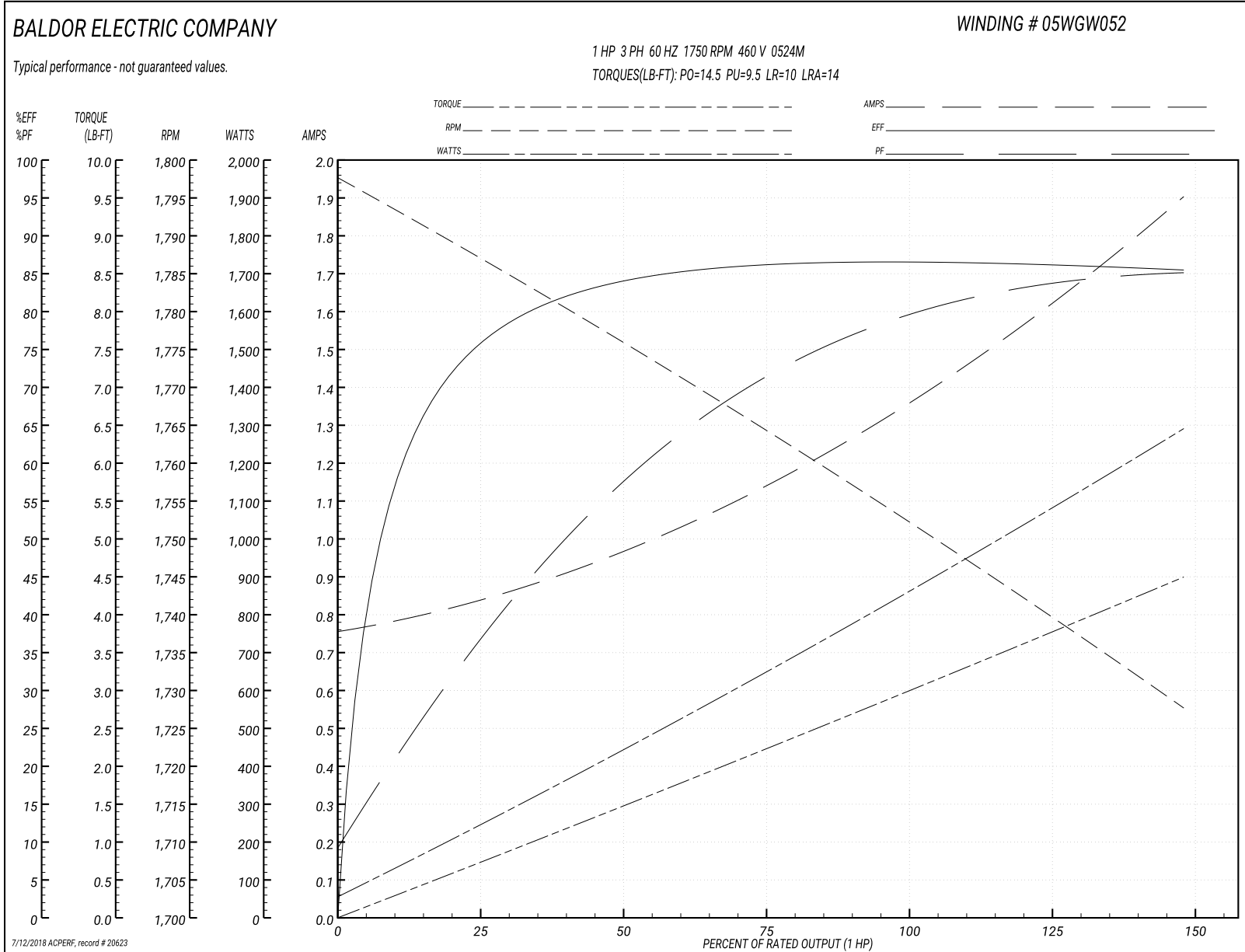
Winding: 05WGW052-R004	Type: 0524M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1			Full Load Torque	3 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	2.8/1.4			Breakdown Torque	14.5 LB-FT
R.P.M.	1750			Pull-up Torque	9.5 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	10 LB-FT
NEMA Design Code	B	KVA Code	M	Starting Current	14 A
Service Factor (S.F.)	1			No-load Current	0.76 A
NEMA Nom. Eff.	86.5	Power Factor	78	Line-line Res. @ 25°C	15.8 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	27°C

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	58	72	79	85	86	0
Efficiency	75.8	83.8	86.2	86.6	86.5	85.3	0
Speed	1786	1777	1762	1753	1741	1727	0
Line amperes	0.84	0.96	1.14	1.38	1.61	1.9	1.52

Performance Graph at 460V, 60Hz, 1.0HP Typical performance - Not guaranteed values



CD0005



LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005