

BALDOR® • RELIANCE 

Product Information Packet

IDNM3538

.5HP,1740RPM,3PH,60HZ,56C,3512M,TENV,F1

Part Detail							
Revision:	M	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGP863	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	35T995	Layout:	35LYT995	Poles:	04	Created Date:	04-20-2011
Base:	RG	Eff. Date:	04-20-2020	Leads:	9#18		

Specs			
Catalog Number:	IDNM3538	Insulation Class:	H
Enclosure:	TENV	Inverter Code:	Inverter Duty
Frame:	56C	KVA Code:	M
Frame Material:	Steel	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	.500 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 Class and Group:	None	Motor Type:	3512M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	69
	CSA	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	C-Face
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	.800 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding

	1.600 A @ 230.0 V	Shaft Rotation:	Reversible: Connected Standard
Design Code:	B	Shaft Slinger Indicator:	No Slinger
Drip Cover:	No Drip Cover	Speed Code:	Single Speed
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Direct on line
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	None
Front Face Code:	Encoder/Feedback Device	Thermal Device - Winding:	Normally Closed Thermostat
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP1162L	
CAT NO	IDNM3538
SPEC.	35T995P863G1
FRAME	56C HP .5 TE
VOLTS	230/460
MAG CUR	1.2/.6 FLA 1.6/.8
RPM	1740 RPM MAX 6000
HZ	60 PH 3 CLASS H
SER.F.	1.00 DES B SL HZ 2
NEMA-NOM-EFF	80 WK2 0.07
BLWR V	PH HZ A
RATING	40C AMB-CONT
DE BRG	6205 ODE BRG 6203
CC	SN

Parts List		
Part Number	Description	Quantity
SA221980	SA 35T995P863G1	1.000 EA
RA209116	RA 35T995P863G1	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 EA
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
35EP3122K01	K00 W/SH ENC CVR	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3307F00	MASTER DE,205 BRG,.998SH,#26 DRN	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
35FH4801G	THRU-SHAFT ENCODER COVER INV/VECTOR F1 &	1.000 EA
WD4129	1.50 X 1.50 GRAY SNAP IN PLUG PROMOULD #	2.000 EA
10XN2520A08	1/4-20X1/2 HEX HEAD CAP	4.000 EA
10XN2520A08	1/4-20X1/2 HEX HEAD CAP	1.000 EA
35CB4521GX	CONDUIT BOX LID KIT **ORDER INDIV PARTS	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA
MJ5004A05	#242-21 LOCTITE GENERAL PURPOSE MED. STR	0.005 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.017 GA
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
LB1119N	WARNING LABEL	1.000 EA
LC0145B01	CONNECTION LABEL	1.000 EA
NP1162L	SS INV UL CSA CC	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 EA
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA

AC Induction Motor Performance Data

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AC Induction Motor Performance Data

Record # 34832

Typical performance - not guaranteed values

Winding: 35WGP863	Type: 3512M	Enclosure: TENV
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Nameplate Data			General Characteristics at 460 V, 60 Hz: High Volt Connection		
Rated Output (HP)	.5		Full Load Torque	1.49 LB-FT	
Volts	230/460		Start Configuration	DOL	
Full Load Amps	1.6/8		Break Down Torque	6.71 LB-FT	
R.P.M.	1740		Pull-Up Torque	4.67 LB-FT	
Hz	60	Phase	Locked-rotor Torque	5.31 LB-FT	
NEMA Design Code	B	KVA Code	Starting Current	6.34 Amps	
Service Factor	1		No-load Current	0.608 Amps	
NEMA Nom. Eff.	80	P.F.	Line-line Res. @ 25°C.	34 Ohms	
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	54°C	
S.F. Amps			Temp. Rise @ S.F. Load		

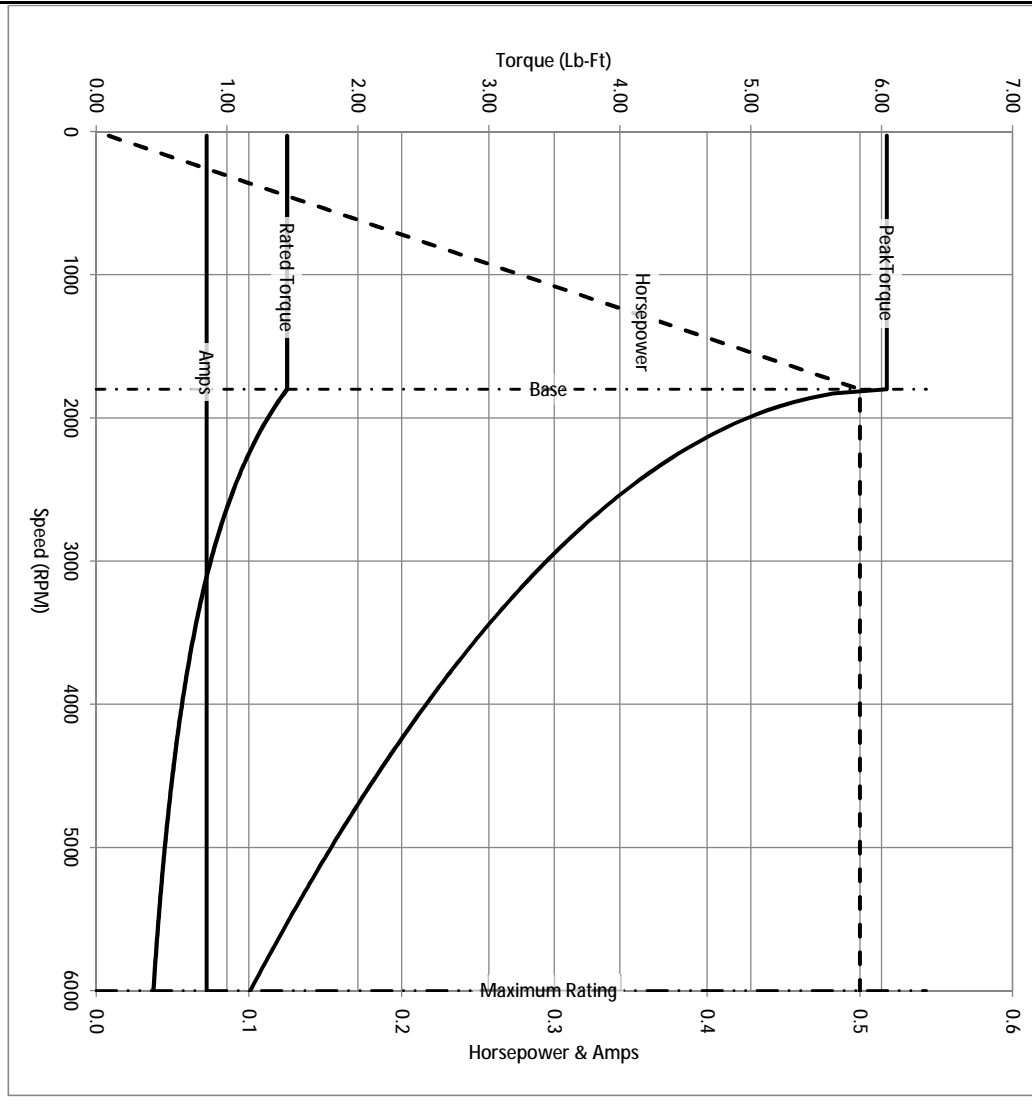
Load Characteristics at 460 Volts, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	28	45	59	69	76	81	
Efficiency	59.5	73.8	78.4	80	79.9	78.9	
Speed	1788	1774	1759	1741	1722	1702	
Line Amperes	0.624	0.669	0.744	0.844	0.957	1.1	

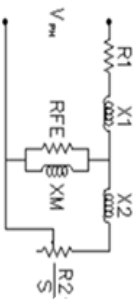
Baldor Electric Company Fort Smith, Arkansas



Catalog	IDNM3538	NP VOLTS	230/460	ENCLOSURE	TENV	WYE CONN EQ CRT OHMS PER PHASE (BASE RATING, 20C)			
FRAME	56C	NP AMPS	1.6/ .8	Base Volts	460	R1	16.600	X1	17.695
HP	0.5 HP	DUTY	Cont	Base AMPS	0.844	R2	12.600	X2	9.974
BASE SPEED	1800	MAX SAFE RPM	6000	Slip Hz	1.97	XM1			365.043
PHASE/HZ	3/60	AMB ⁰ /TNSUL	40/H	WK ² (lb-ft ²)	0.0709				



Remarks: Calculated Data



BALDOR DR BY ENR
 CK BY
 APP BY ENR
 DATE 3/6/2013

A MEMBER OF THE ABB GROUP

A-C MOTOR
 PERFORMANCE CURVES
 35T995P863G1
 ISSUE DATE 3/6/2013



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