

ABB BALDOR RELIANCE III

Customer information packet

EM4410TS-4

125HP, 1785RPM, 3PH, 60HZ, 444TS, A44076M, TEF

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	444TS
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	144.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	144.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 1/0 AWG
Motor Standards	NEMA
Motor Type	A44076M

Part Detail

Revision	V
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3870
Layout	617435-049
Eff. date	09-25-2025
CD Diagram	416820-036
Poles	04
Leads	3#1/0
Proprietary	False
Created date	08-13-2012

Mounting Arrangement	F1
Number of Poles	4
Overall Length	41.21 IN
Power Factor	85
Product Family	Other
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2349L																		
SPEC NO.	P44G3904			CAT.NO.		EM4410TS-4				FRAME		444TS						
HP	125	VOLTS		460		PHASE		3	DESIGN		B	TYPE		P				
RPM	1785	AMPS		144		HZ		60	AMB		40	SF		1.15				
DRIVE END BEARING	90BC03J30X			DUTY		CONT		INSUL.CLASS			F							
OPP D.E. BEARING	90BC03J30X			ENCL		TEFC		CODE		G								
SER.NO.				POWER FACTOR			85		NEMA-NOM-EFFICIENCY					95.4				
							MAX CORR KVAR			27.0		GUARANTEED EFFICIENCY		94.5				
							NEMA NOM/CSA QUOTED EFF											
							MOTOR WEIGHT											

Parts List

Part number	Description	Quantity
SA249399	SA P44G3904	1.000 ea
RA236264	RA P44G3904	1.000 ea
000692000FF	N/P	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
NP2349L	SUPER-E ,SS, CURUS EEV, CC, LASER	1.000 ea
004824015A	GREASE POLYREX EM	1.000 lb
032018004BK	HHCS 5/16-18X1/2 PLATED	3.000 ea
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
032018008DK	HHCS 1/2-13X1 PLATED	4.000 ea
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 ea
032620016LA	SOCKET SET SCREW-449	3.000 ea
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 ea
406056008A	GASKET, TERBD 440	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
034017013AB	LCKW 5/16 STD. PLATED	3.000 ea
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
034180014DA	KEY 1/4X1/4X1-3/4 L	1.000 ea
034530064AB	P/NIP 1/8 X 8" L Pipe Nipple	1.000 ea
034530064BB	P/NIP 1/4X8 PLATED	1.000 ea
034180024HA	KEY 5/8X5/8X3 L	1.000 ea
604797045	STD. 400 FRAME SKID	1.000 ea
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 ea
412118006A	DRAIN	2.000 ea
034690005AB	PPLG 3/4 PLATED	2.000 ea
421948051	LABEL, MYLAR	1.000 ea
034530044AB	P/NIP 1/8X5-1/2L GALV.	1.000 ea
034530044BB	P/NIP 1/4X5-1/2L PLT	1.000 ea
034630002AB	CPLG 1/4" PLATED	1.000 ea
034630002AB	CPLG 1/4" PLATED	1.000 ea

034690002AB	PPLG 1/4" PLTD.	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
083199126RA	G28 MOLDED FAN COVER W/BAFFLE ASSEMBLY	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
418153001A	GASK 440	1.000 ea
702658001A	CONDUIT BOX, E440	1.000 ea
702658002A	+C/BOX CVR, PAINTED 440	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
078548001R	FAN KB 234/150 (84) 400	1.000 ea
415915007G	GASK, LAC	1.000 ft
089490099A	G28 BRKT 089490098WCA KB	1.000 ea
089490099A	G28 BRKT 089490098WCA KB	1.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea
410700004A	WSHR	1.000 ea
415045002A	SLGR	1.000 ea
415072001B	CLAMP	1.000 ea
415045002A	SLGR	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
MG1025Y17	WILKOFAS, 789.701, SUPER E PEARL GOLD	0.250 ga
702623013A	THERMAL BARRIER -- G28 -- BRACKET MTD	1.000 ea
033512006LB	HHTTS 1/4-20X3/4 PLTD.	8.000 ea
418150003A	GREASE FITTING CAP	1.000 ea

Accessories

Part number	Description	Multiplier
089490106A	G28 C-FACE BRKT MACH-6318 089490105WCA	P1
089490110A	D-FLANGE BRKT, G28 089490109WCA	P1

ABB BALDOR RELIANCE III							CUSTOMER INFORMATION PACKET							EM4410TS-4 - 125HP, 1785RPM, 3PH, 60HZ, 444TS, A44076M, TEF						
S/O			FRAME			HP			TYPE			PHASE/ HERTZ			RPM			VOLTS		
			444			125			P			3/60			1785			460		
AMPS			DUTY			AMB °C/ INSUL			S.F.			NEMA DESIGN			CODE LETTER			ENCLOSURE		
144			CONT			40/F			1.15			B			G			TEFC		
E/S			ROTOR			TEST S.O.			TEST DATE			STATOR RES. @25 °C OHMS (BETWEEN LINES)								
498834			418143052KE			---			---			.0383								
PERFORMANCE																				
LOAD			HP			AMPERES			RPM			% POWER FACTOR			% EFFICIENCY					
NO LOAD			0			44.8			1800			4.44			0					
1/4			31.3			61.7			1796			51.1			92.8					
2/4			62.5			84.1			1792			73.0			95.3					
3/4			93.7			112			1788			81.7			95.7					
4/4			125			144			1784			85.3			95.5					
5/4			156			178			1780			86.6			95.1					
SPEED TORQUE																				
						RPM			TORQUE % FULL LOAD			TORQUE LB.-FT.			AMPERES					
LOCKED ROTOR						0			133			489			892					
PULL UP						270			114			420			875					
BREAKDOWN						1729			290			1067			500					
FULL LOAD						1784			100			368			144					
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.																				
TYPICAL DATA NEMA NOMINAL EFFICIENCY = 95.4PCT.																				
						DRAWN BY: <u>CD</u> CHECKED BY: <u>CD</u> APPROVED BY: <u>R. MCELVEEN</u> DATE: <u>1/18/11</u>						AC MOTOR PERFORMANCE DATA			A44WG3870-R001 DATE ISSUED 05/04/21					

FRAME 444

RPM 1785

S.F. 1.15

ROTOR 418143052KE

HP 125

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 144

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

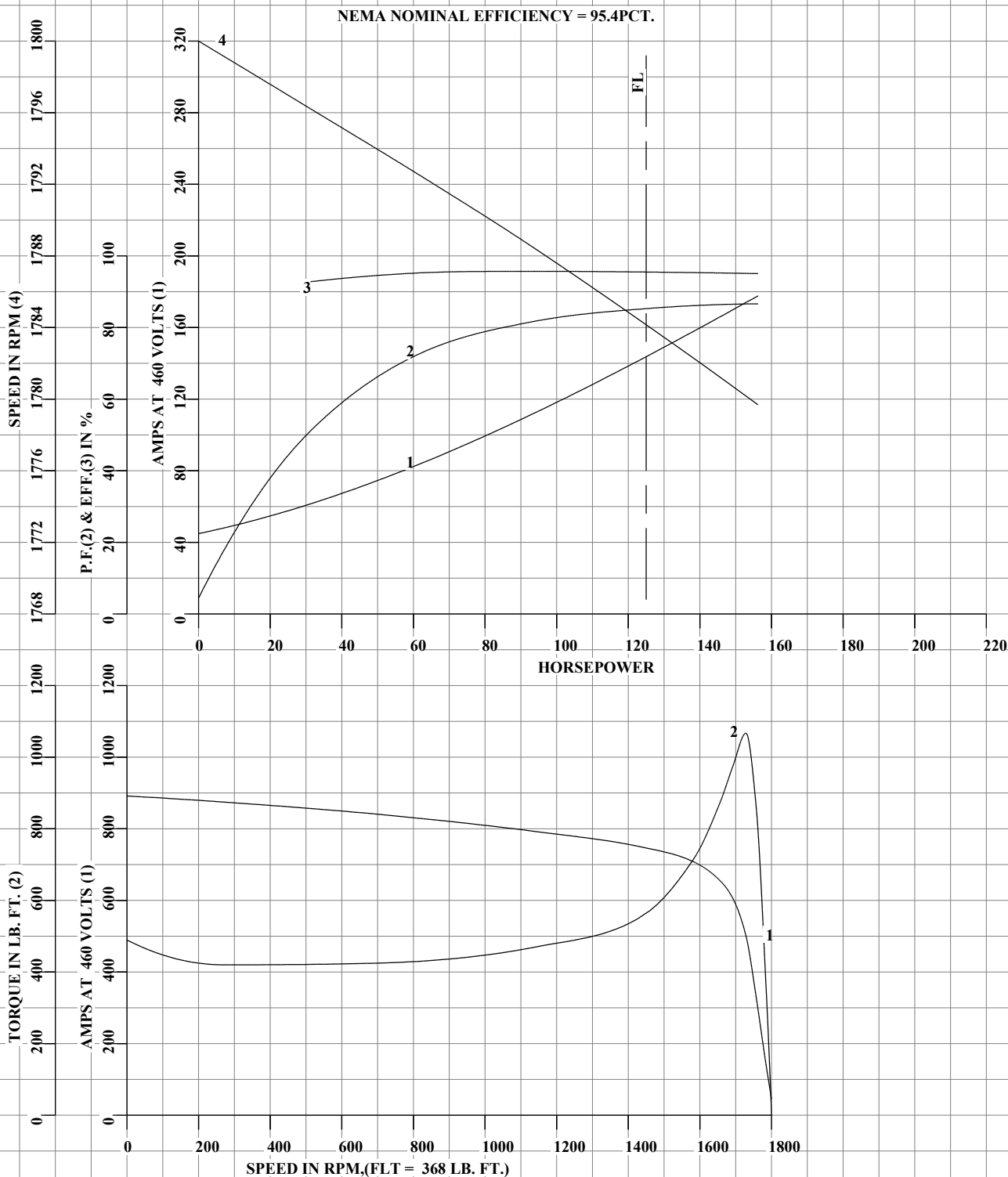
ENCLOSURE TEFC

STATOR RES. @ 25°C .0383

AMB °C / INSUL 40/F

E/S 498834

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



DRAWN BY: CD
 CHECKED BY: CD
 APPROVED BY: R. MCELVEEN
 DATE: 1/18/11

AC MOTOR
 PERFORMANCE
 DATA

A44WG3870-R001

ISSUE DATE 05/04/21

FRAME 444

RPM 1785

S.F. 1.15

ROTOR 418143052KE

HP 125

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 144

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

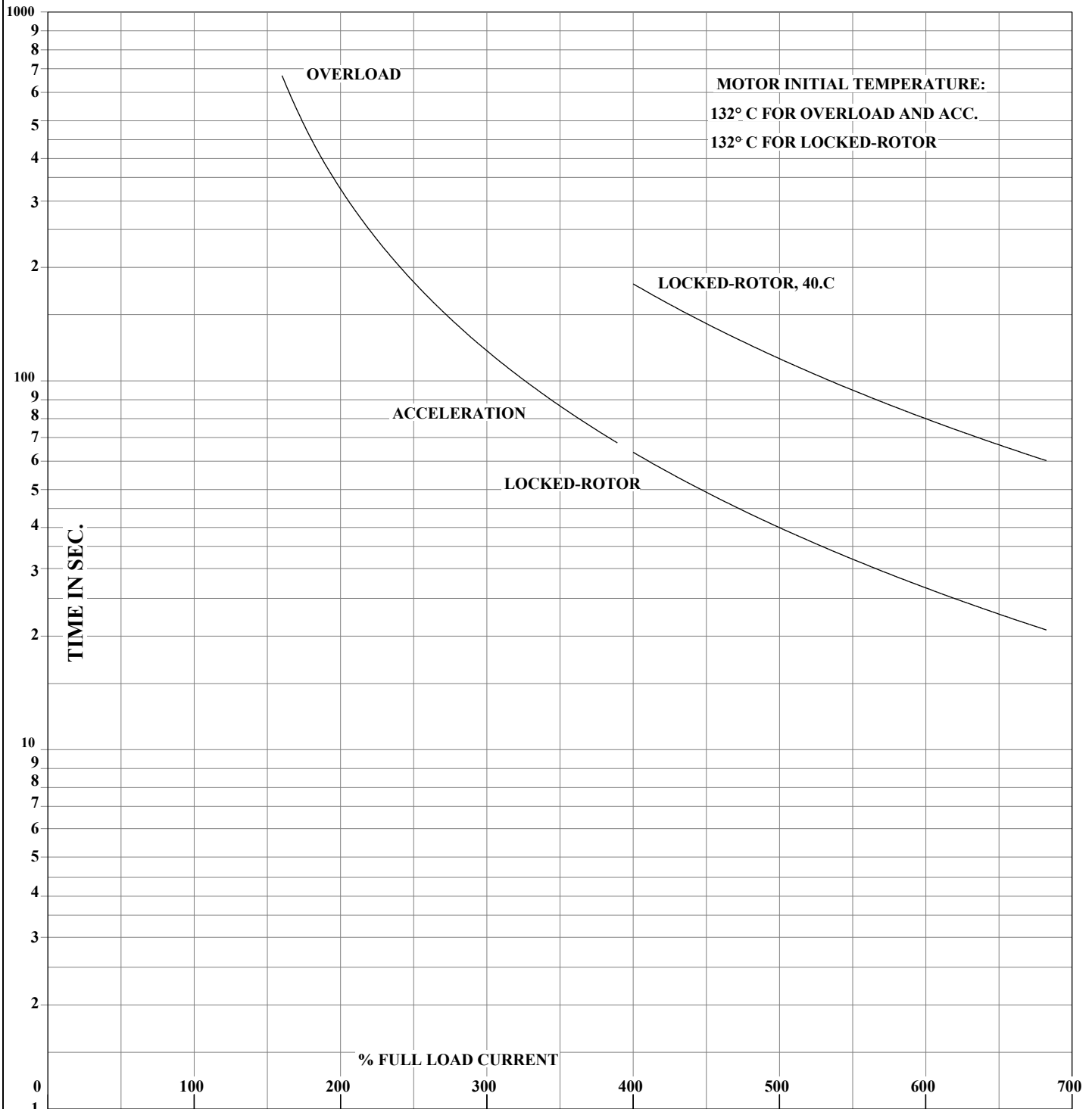
ENCLOSURE TEFC

STATOR RES. @ 25°C .0383

AMB °C / INSUL 40/F

E/S 498834

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
NEMA NOMINAL EFFICIENCY = 95.4PCT.

AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

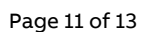


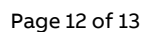
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AC MOTOR
PERFORMANCE
DATA

A44WG3870-R001

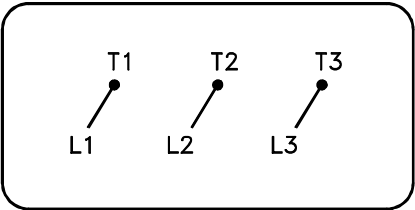
ISSUE DATE 05/04/21





416820-036

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575-BA)

416820-036

REV. DESC: LOADED TO BUS, C/R 335225		
REV. LTR: -	VERSION: 00	TDR: 000000538207
FILE: \MGA\00000\682	REVISED: 11: 54: 06 04/30/2010	
MTL: -	BY: RAGRA	

BALDOR

CONN DIAG - STANDARD 3 LEAD
SH 1 of 1