BALDOR • RELIANCE

Customer information packet

GDL3770T

7.5HP, 1750RPM, 1PH, 60HZ, 215TZ, 0743LC, TEFC
Class - None
Division - Not Applicable

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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**							

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. @ 25ºC**	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

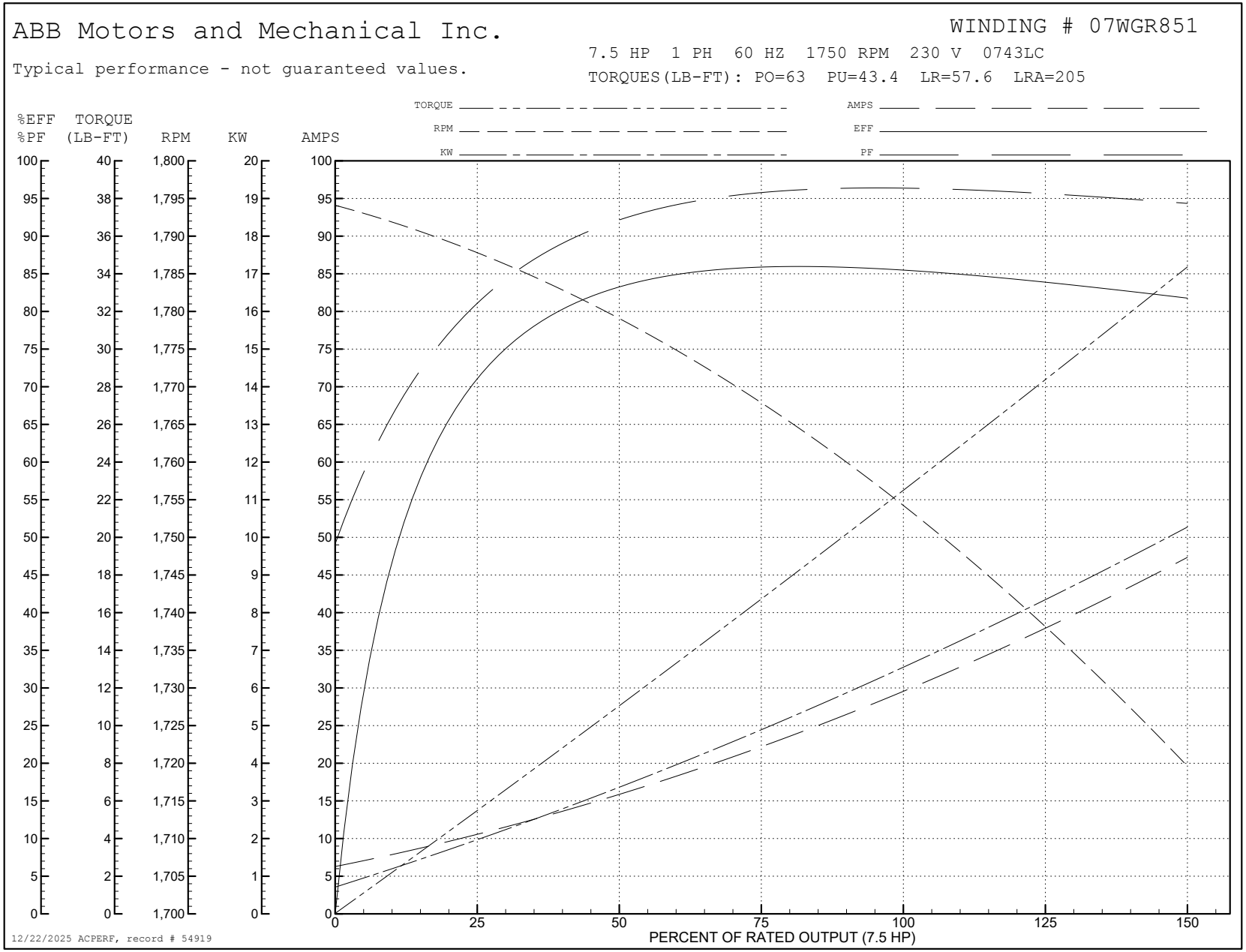
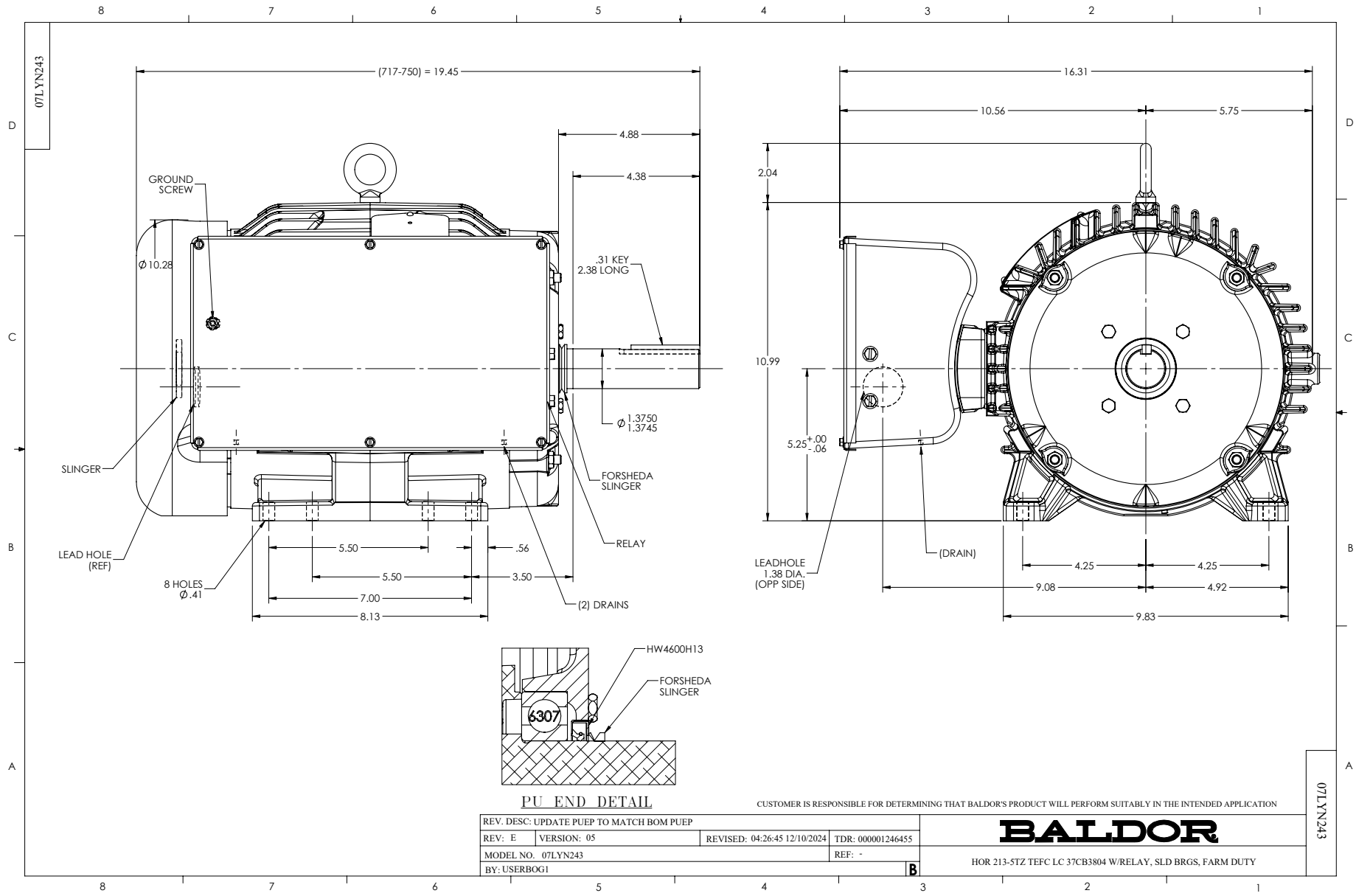
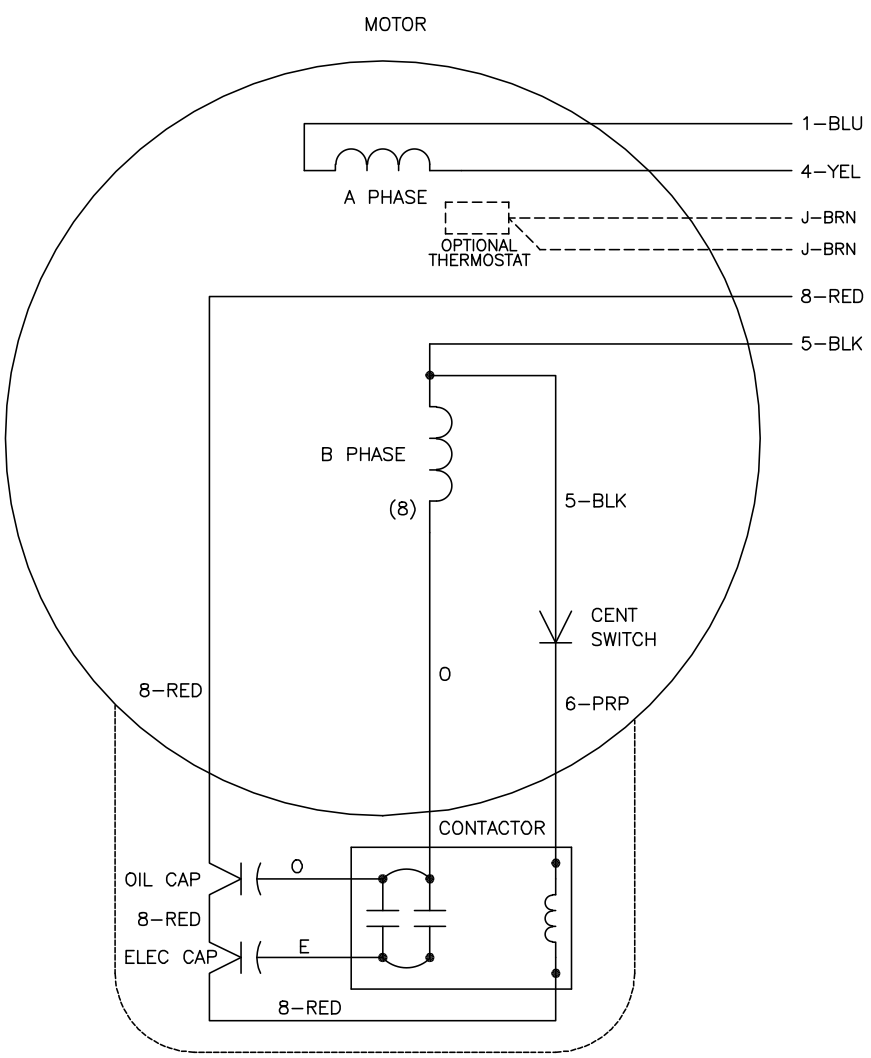


ABB Motors and Mechanical Inc.
WINDING # 07WGR851
7.5 HP 1 PH 60 HZ 1750 RPM 230 V 0743LC
TORQUES(LB-FT): PO=63 PU=43.4 LR=57.6 LRA=205
Typical performance - not guaranteed values.
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (7.5 HP)
12/22/2025 ACPERF, record # 54919


07LYN243
(717-750) = 19.45
4.88
4.38
GROUND SCREW
Ø 10.28
.31 KEY
2.38 LONG
Ø 1.3750
1.3745
SLINGER
FORSHEDA SLINGER
RELAY
LEAD HOLE (REF)
8 HOLES Ø .41
5.50
.56
5.50
3.50
7.00
8.13
(2) DRAINS
16.31
10.56
5.75
2.04
10.99
5.25 +.00 -.06
LEADHOLE 1.38 DIA. (OPP SIDE)
(DRAIN)
4.25
4.25
9.08
4.92
9.83
HW4600H13
FORSHEDA SLINGER
6307
PU END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE PUEP TO MATCH BOM PUEP
REV: E
VERSION: 05
REVISED: 04:26:45 12/10/2024
TDR: 000001246455
MODEL NO. 07LYN243
REF: -
BY: USERBOG1
B
BALDOR
HOR 213-5TZ TEFC LC 37CB3804 W/RELAY, SLD BRGS, FARM DUTY
07LYN243

CD1084



	LINE A	LINE B
STD	1,8	4,5
OPP	1,5	4,8

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. USE GE CR353CB2AB1, OR FURNAS 45DG20AG, OR EQUIVALENT POTENTIAL RELAY.
5. DRESS LEADS AWAY FROM RELAY TO AVOID INTERFERENCE.
6. CAPS AND RELAY MAY BE SEPERATELY MOUNTED.
7. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD1084

REV. DESC: CHG 'RELAY' TO 'CONTACTOR'		
REV. LTR: E	VERSION: 02	TDR: 000001259046
FILE: \AAA\00029\485	REVISED: 01:02:57 07/08/2025	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

TYPE LC, SV, REV, 4LD, RELAY W/CENT SW, ON/OFF SW

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