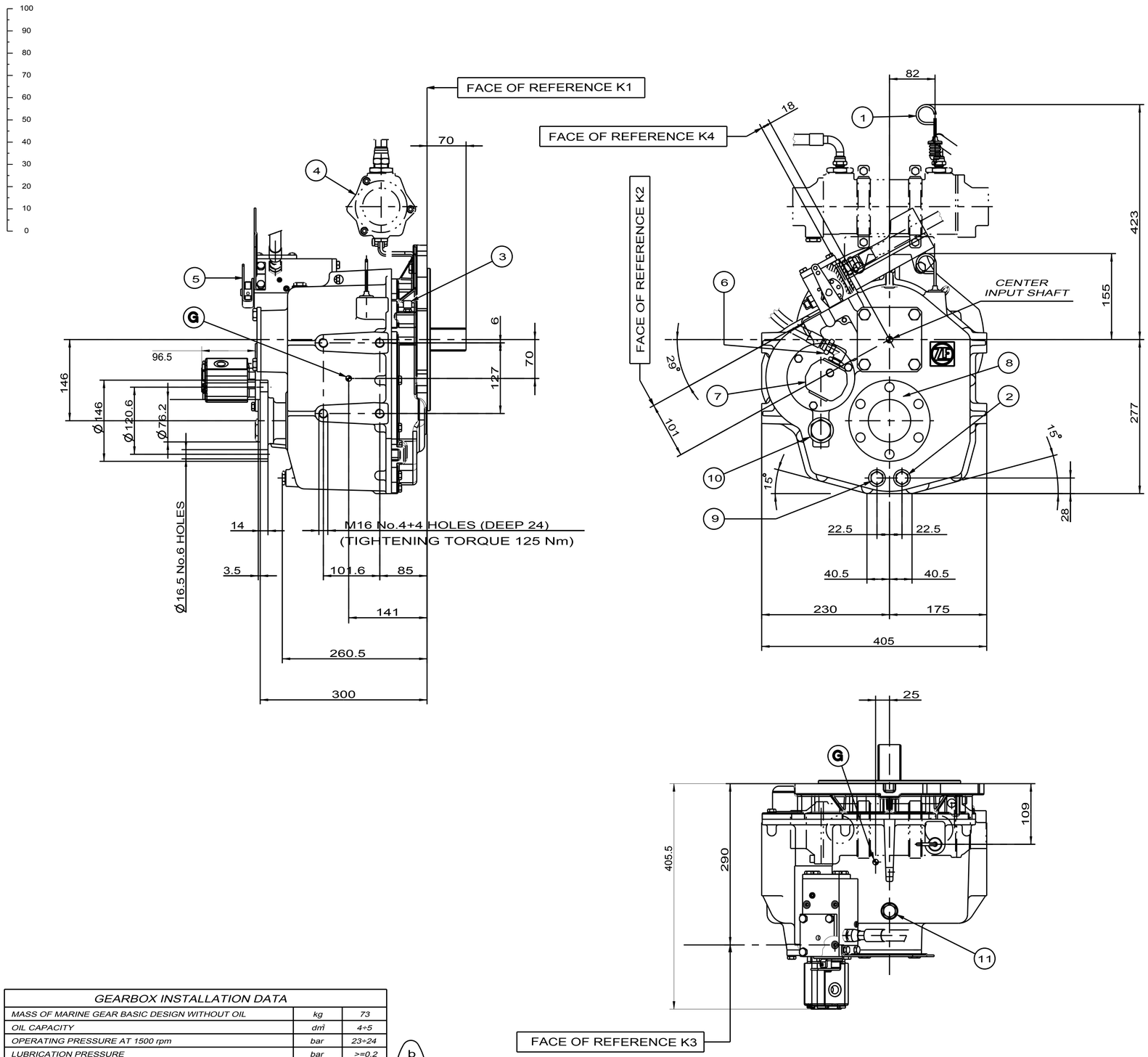

OPTIONALS DRAWINGS	DRW. REF.
POWER FLOW AND RATIOS	3207 700 015
DATA FOR TORSIONAL VIBRATION CALCULATION	3207 700 001
CONTROL VALVE - MECHANICAL - MB	3207 600 026
CONTROL VALVE - ELECTRICAL - EB	3207 600 033
TROLLING VALVE - MECHANICAL -	3217 600 030
TROLLING VALVE - ELECTRICAL -	3217 600 037
HEAT EXCHANGER	3215 600 075
LIVE PTO SAE J744 SIZE A	3207 600 024
LIVE PTO SAE J744 SIZE B	3207 600 025
MOUNTING BRACKETS	3207 600 010
FLEXIBLE COUPLING -Centa DS- SAE 2/11.5"	3207 600 021
FLEXIBLE COUPLING -Centa DS- SAE 3/11.5"	3207 600 022
FLEXIBLE COUPLING -Centa DS- SAE 3 CAT/11.5"	3207 600 023
FLEXIBLE COUPLING -Centa R- SAE 3 /11.5"	3207 600 048
FLEXIBLE COUPLING -Vulkardan E- SAE 2/11.5"	3207 600 016
FLEXIBLE COUPLING -Vulkardan E- SAE 3/11.5"	3207 600 017
FLEXIBLE COUPLING -Vulkardan E- SAE 3 CAT/11.5"	3207 600 018
FLEXIBLE COUPLING -Vulkan Torflex- SAE 1/14"	3207 600 041
FLEXIBLE COUPLING -Vulkan Torflex- SAE 2/11.5"	3207 600 037
FLEXIBLE COUPLING -Vulkan Torflex- SAE 3/11.5"	3207 600 036
FLEXIBLE COUPLING -Vulkan Torflex- SAE 3 CAT/11.5"	3207 600 035

G	CENTER OF GRAVITY
11	OIL FILLING PLUG M22x1.5 (TIGHTENNING TORQUE 60 Nm)
10	OIL FILTER COVER
9	OIL DRAIN PLUG M16X1.5 (TIGHTENING TORQUE 40 Nm)
8	OUTPUT FLANGE
7	OIL PUMP
6	OIL PUMP OUTLET TO HEAT EXCHANGER M16X1.5 (TIGHTENING TORQUE 40 Nm) b
5	CONTROL VALVE
4	HEAT EXCHANGER STD. "ZF"
3	OIL BREATHER
2	OIL TEMPERATURE GAUGE CONNECTION M16X1.5 (TIGHTENING TORQUE 40Nm)
1	OIL DIPSTICK
POS	NAME

GEARBOX INSTALLATION DATA		
MASS OF MARINE GEAR BASIC DESIGN WITHOUT OIL	kg	73
OIL CAPACITY	dm³	4÷5
OPERATING PRESSURE AT 1500 rpm	bar	23÷24
LUBRICATION PRESSURE	bar	>=0.2
MAX. INCLINATION DURING OPERATION - TRANSVERSE -	deg	± 15°
MAX. INCLINATION DURING OPERATION - LONGITUDINAL -	deg	+25°-10°
GEARBOX COOLING DESIGN DATA		
POWER LOSSES PERCENTAGE	%	3
OIL FLOW RATE AT 1500 rpm	dm³	12
MAX. OIL TEMPERATURE	°C	85
MIN. OPERATING OIL TEMPERATURE SUGGESTED	°C	40
MAX. OIL PRESSURE ALLOWABLE	bar	25

b

FOR GEARBOXES TYPE:

ZF 280-1

Ind	Qty	Mod.No.	Date	Name
b		Z%45211	16.06.09	PINATO
a		24036	13.07.04	FORNOLI

Modification

Data	16-10-07	-	-	-	-	-	-	MONTI	-	b1
Nome	MONTI	---	---	---	---	---	-	-	-	-
	Dis.tore *Drawn*	Prog.sta . *Design*	Manager *Funct.*	G.D.T. *Stand.*	U.T.O. *Prod.*	Dentature *Teeth*	Data Modif. *mod.date*	Nome *Name*	N.Modifica *Mod.No.*	Vers.Doc. *Doc.Vers.*

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ZF Padova S.r.l.

Informazioni Tecniche
Technical information
ZF280-1

Descrizione
Description
DISEGNO DI INSTALLAZIONE
DISEGNO DI INSTALLAZIONE

Massa *Mass* - kg

N.Disegno Simile *Similar docu. no.* ---

Codice Grezzo *Casting/forging No.* ---

Codice Materiale *Item number* ---

Sistema CAD *CAD system* PRO/E

Foglio *Sheet* 1 di *of* 1

Scala *Scale* 1:4

N. Disegno *Document number* 3207_602_003_INS001

DIN A1

model name: MODEL NAME [DRAFT]