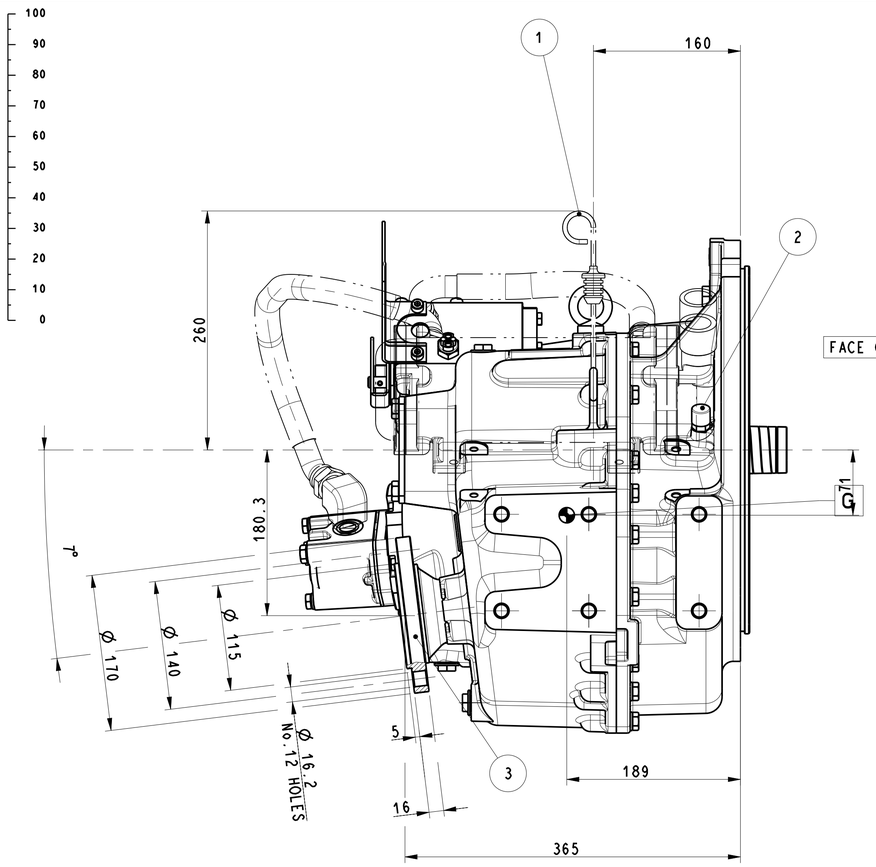

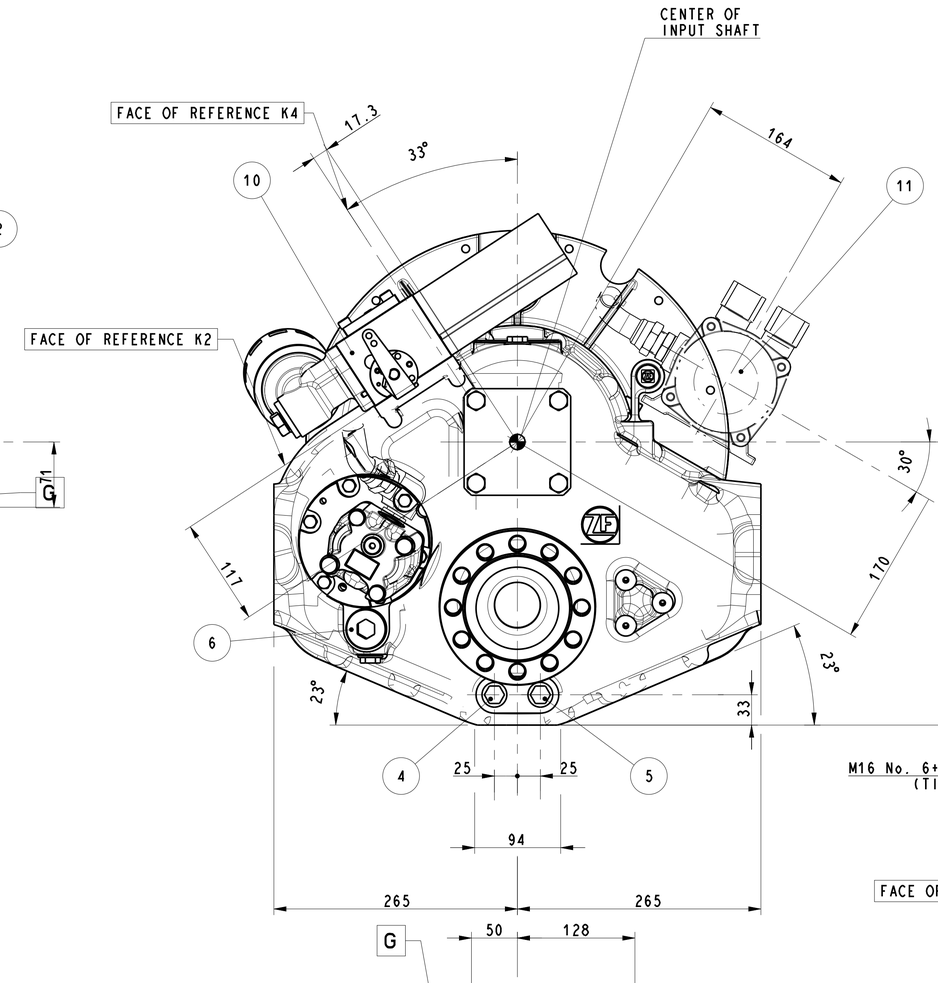

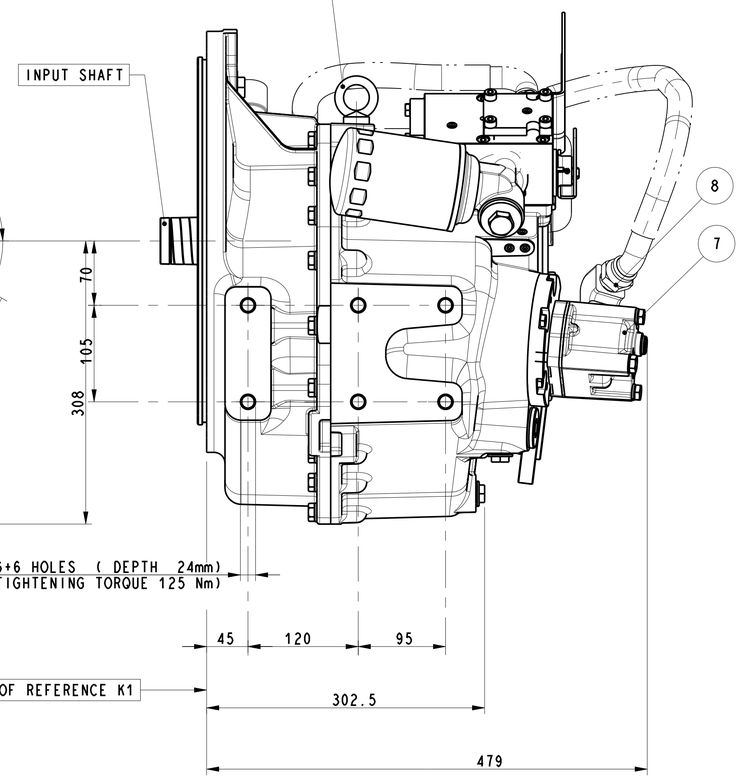

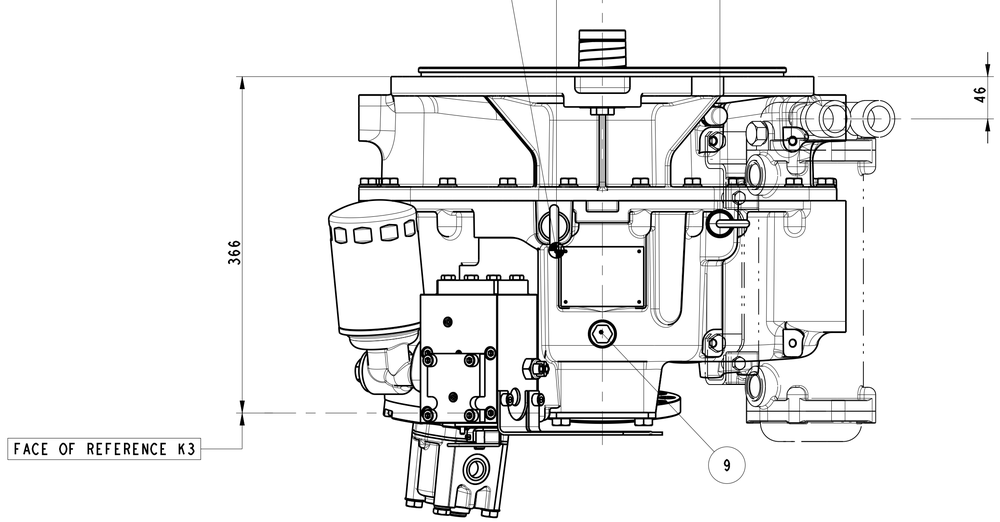

OPTIONALS´ DRAWINGS	DRW. REF.
POWER FLOW AND RATIO	3214_700_003
DATA FOR TORSIONAL VIBRAITION CALCULATION	3214_700_004
CONTROL VALVE - ELECTRICAL - EB	3217_600_057
CONTROL VALVE - MECHANICAL - MB	3217_600_028
TROLLING VALVE - MECHANICAL -	3217_600_030
TROLLING VALVE - ELECTRICAL	3217_600_037
HEAT EXCHANGER	3214_600_009
BRACKETS-DIST. BETWEEN CENTER 750-800 mm	3214_600_050
BRACKETS-DIST. BETWEEN CENTER 750-800 mm	3214_600_069
BRACKETS-DIST. BETWEEN CENTER 900 mm	3214_600_051
FLEXIBLE COUPL. VULKARDAN-E 11.5" - SAE 1	3214_600_019
FLEXIBLE COUPLING CENTA-R 11.5" - SAE 1	3214_600_041
FLEXIBLE COUPL. VULKARDAN-E 14" - SAE 1	3214_600_020
FLEXIBLE COUPLING CENTA-R 14" - SAE 1	3214_600_040
PTO SAE A - J744 - LIVE -	3207_600_024
PTO SAE B - J744 - LIVE -	3207_600_025
PTO SAE B - J744 - CLUTCHABLE -	3214_600_023

GEARBOX INSTALLATION DATA		
MASS OF MARINE GEAR BASIC DESIGN WITHOUT OIL	Kg.	130
OIL CAPACITY	$dm.^3$	5.5 ÷ 6.5
OIL TYPE	SAE	30
OPERATING PRESSURE AT 1500 r.p.m.	bar	23 ÷ 24
LUBRICATION PRESSURE AT 1500 r.p.m.	bar	0.2 ÷ 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 r.p.m.	$dm.^3$	22.5
MAX. OIL TEMPERATURE	°C.	85
MIN. OPERATING OIL TEMPERATURE SUGGESTED	°C.	40
MAX. OIL PRESSURE ALLOWABLE	bar	24

G	CENTER OF GRAVITY
11	HEAT EXCHANGER
10	CONTROL VALVE
9	OIL FILLER (TIGHT. TORQUE 120 Nm)
8	OIL PUMP OUTLET HEAT EXCH. 1/2 BSPP (TIGHT. TORQUE 45 Nm.)
7	OIL PUMP
6	OIL FILTER COVER
5	OIL TEMPERATURE GAUGE CONNECTION M22x1.5 (TIGHT. TORQUE 50 Nm.)
4	OIL DRAIN PLUG GAUGE CONNECT. M22x1.5 (TIGHT. TORQUE 50 Nm.)
3	OUTPUT FLANGE
2	OIL BREATHER
1	OIL DIPSTICK
POS	NAME (DESCRIPTION)

Vers.	Descrizione Description
d	OPTIONALS' DRAWINGS TABLE UPDATED
c	DELETED BELL HOUSING AND REDEFINE FACE OF REFERENCE K1
2	CORRECT GEARBOX NAME, WAS ZF 324 A-1 / ADDED MOUNTING BRACKETS
1	CHANGED GEARBOX NAME

Data	00-11-30	00-11-30	00-11-30	00-11-30	-	-	-	-	-	-
Nome	MANIER	GALLATO	PASETTO	LAZZARIN	---	---	05-02-03	-	25006	d
	Dis.tore Drawn	Prog.sto. Design	Manager Funct.	G.D.T. Stand.	U.T.O. Prod.	Denture Teeth	Data Modif. mod.date	Nome Name	N.Modifica Mod.No.	Vers.Doc. Doc.Vers

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ZF Padova S.p.a.

Informazioni Tecniche
Technical information
ZF 325-1 A
ZF 325-1 A

Descrizione
Description
DIS. INSTALL.
DIS. INSTALL.

Massa Mass	- kg
N.Disegno Simile Similar docu. no.	---
Codice Grezzo Casting/forging No.	---
Codice Materiale Item number	---
N. Disegno Document number	3214_600_035_EZ001
Sistema CAD CAD system	PRO/E
Foglio Sheet	1 di 1
Scala Scale	3:10
DIN	A1

ZFN 904 K 4

model name: 3214_600_035_DES001 [ASSEM]