X62DF

External forces and moments

Crankshaft type : Full crank pin

Rating R1 : 2385 kW/Cyl. @ 103 rpm / max. values of Gas/Diesel-Mode

Engine Type		5X62DF	6X62DF	7X62DF	8X62DF
Speed		103 rpm	103 rpm	103 rpm	103 rpm
Power		11925 kW	14310 kW	16695 kW	19080 kW
Crank type		FCV2	FCV2	FCV2	FCV1
Massmoments / Forces					
Free Forces					
F1v	[±kN]	0	0	0	0
F1h	[±kN]	0	0	0	0
F2v	[±kN]	0	0	0	0
F4v	[±kN]	0	0	0	0
External Moments					
M1v	[±kNm]	237	0	144	466
M1h	[±kNm]	237	0	139	482
M2v	[±kNm]	2815	1958	568	0
M2v *)	[±kNm]	1118	1183	-	-
M4v	[±kNm]	18	136	386	157
Lateral H-Moments M_{LH}					
Ord.1	[±kNm]	0	0	0	0
Ord.2	[±kNm]	0	0	0	0
Ord.3	[±kNm]	0	0	0	0
Ord.4	[±kNm]	0	0	0	0
Ord.5	[±kNm]	1246	0	0	0
Ord.6	[±kNm]	0	893	0	0
Ord.7	[±kNm]	0	0	745	0
Ord.8	[±kNm]	0	0	0	597
Ord.9	[±kNm]	0	0	0	0
Ord.10	[±kNm]	195	0	0	0
Ord.11	[±kNm]	0	0	0	0
Ord.12	[±kNm]	0	138	0	0
Lateral X-Moments M_{LX}					
Ord.1	[±kNm]	174	0	104	348
Ord.2	[±kNm]	493	343	100	0
Ord.3	[±kNm]	273	493	539	691
Ord.4	[±kNm]	44	343	974	396
Ord.5	[±kNm]	0	0	79	986
Ord.6	[±kNm]	17	0	10	0
Ord.7	[±kNm]	145	0	0	26
Ord.8	[±kNm]	102	71	5	0
Ord.9	[±kNm]	6	114	13	11
Ord.10	[±kNm]	0	37	106	0
Ord.11	[±kNm]	4	0	86	110
Ord.12	[±kNm]	30	0	6	24
Torque variation	[±kNm]	1264	886	744	600

*) with iELBA applied at FE + DE

The values for other engine ratings are available on request
The resulting lateral guide force at the crosshead can be estimated as follows: FL=MLH x 0.25 [kN]

5-8 X62DF / Free external mass moments
Power Related Unbalance (PRU)
Rating R1 2385 kW/Cyl @ 103 rpm

Crankshaft type: Full crank pin

