

Standard Modular System
2011

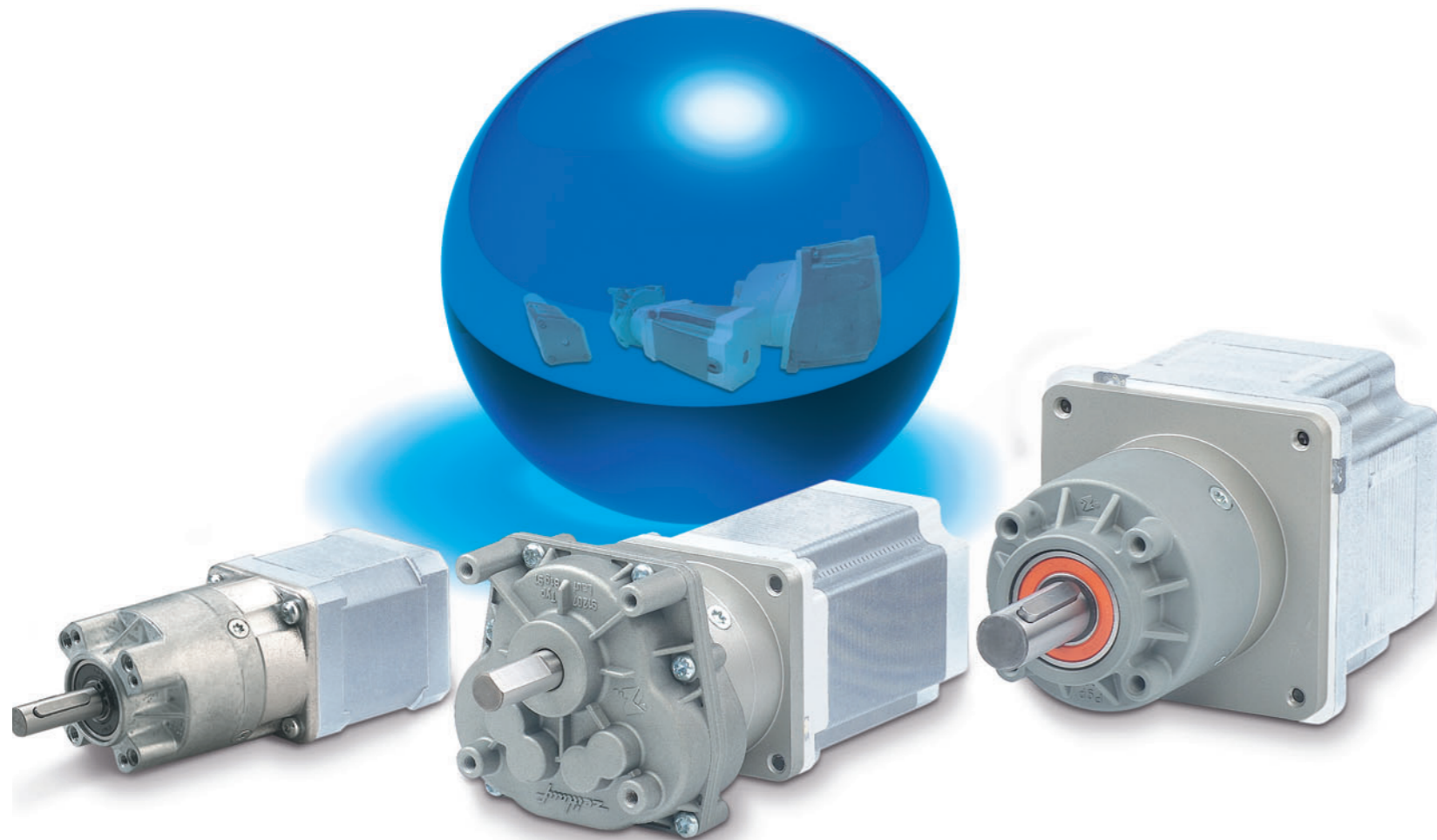
Q

NEMA connections

Q

NEMA-Connection for spur and planetary gearheads

Flexibility for many applications:
The intelligent modular system.



NEMA – Power with methodic

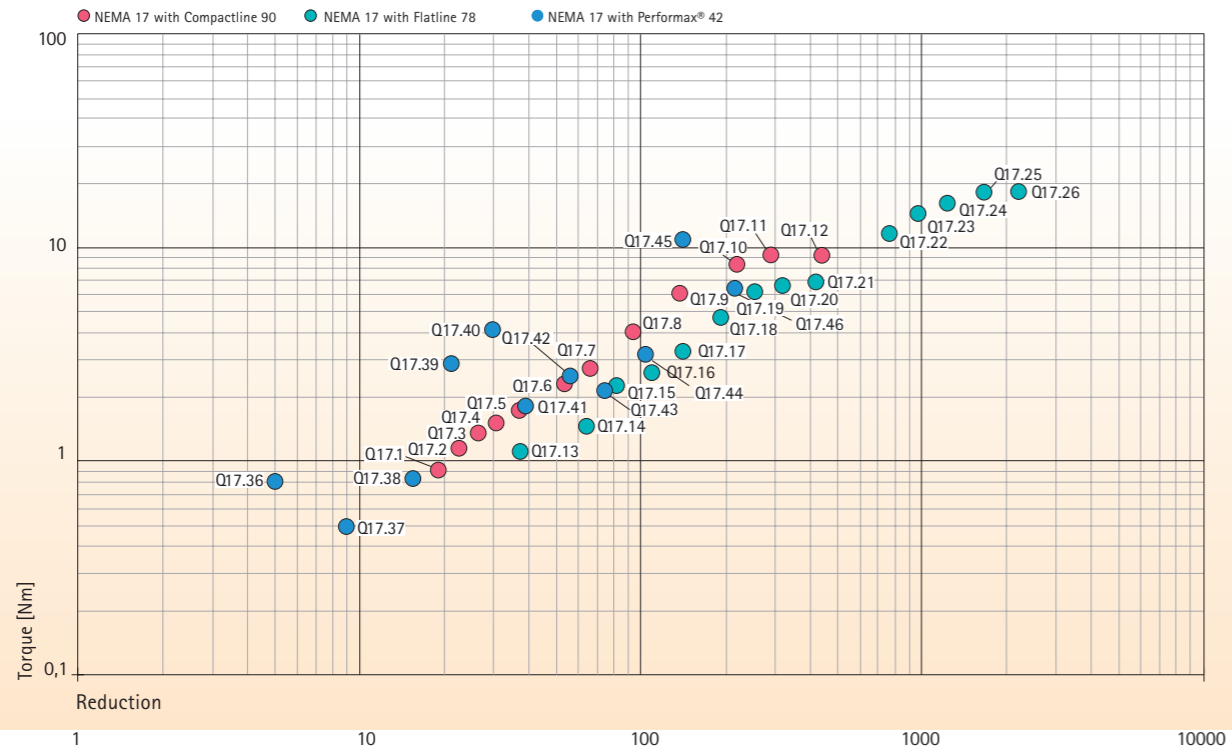
Gearheads with NEMA-Flanges gives you the possibility to connect our gearheads with a wide range of motors e. g. stepper motors or brushless DC-motors with NEMA-Geometry. These gearhead solutions are designed for the NEMA sizes 17, 23 and 34. For all of these sizes, one of our gearheads from the Flatline, Compactline, Performax and Focus series are available.

- easy assembly through clamp connection
- highly precise centering of the pinion
- modular structure of the entire system
- 156 alternatives (gearheads, reduction, types of output shaft bearing) with outstanding performance
- noise optimised helical teeth in the 1st stage
- plastic wheels with optimum sliding properties for additional noise reduction
- hardend and ground output shaft
- gearhead lifetime 5,000 hours (operating mode $C_B=1$). Input speed 3,000 rpm.
- maintenance-free grease lubrication for life
- ambient temperature -20°C to $+80^{\circ}\text{C}$

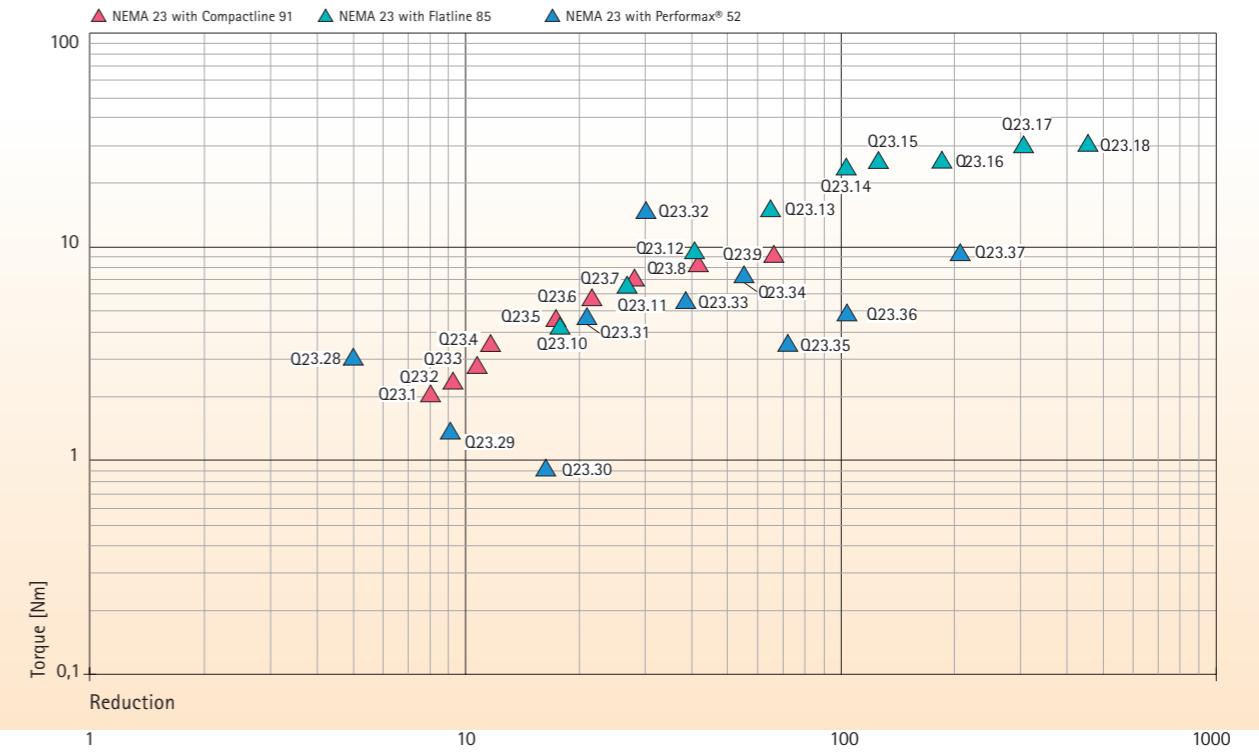
*NoiselessPlus, Performax® Plus and EtaCrown on request

NEMA-Connections for spur and planetary gearheads

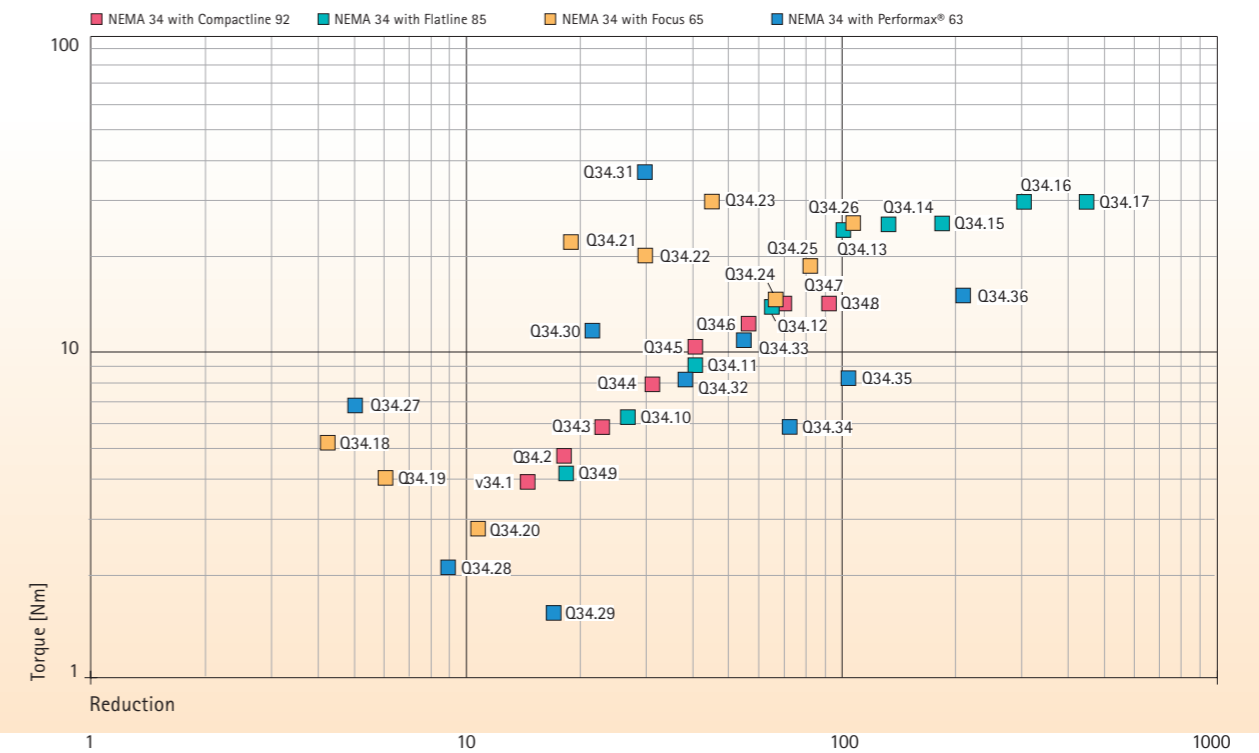
Performance overview NEMA 17



Performance overview NEMA 23



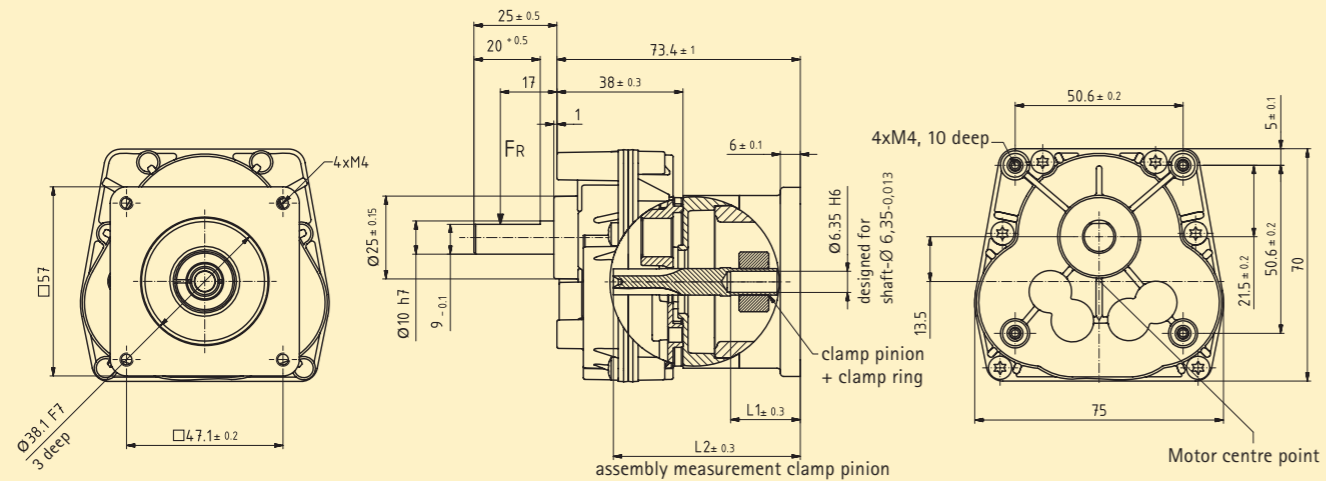
Performance overview NEMA 34



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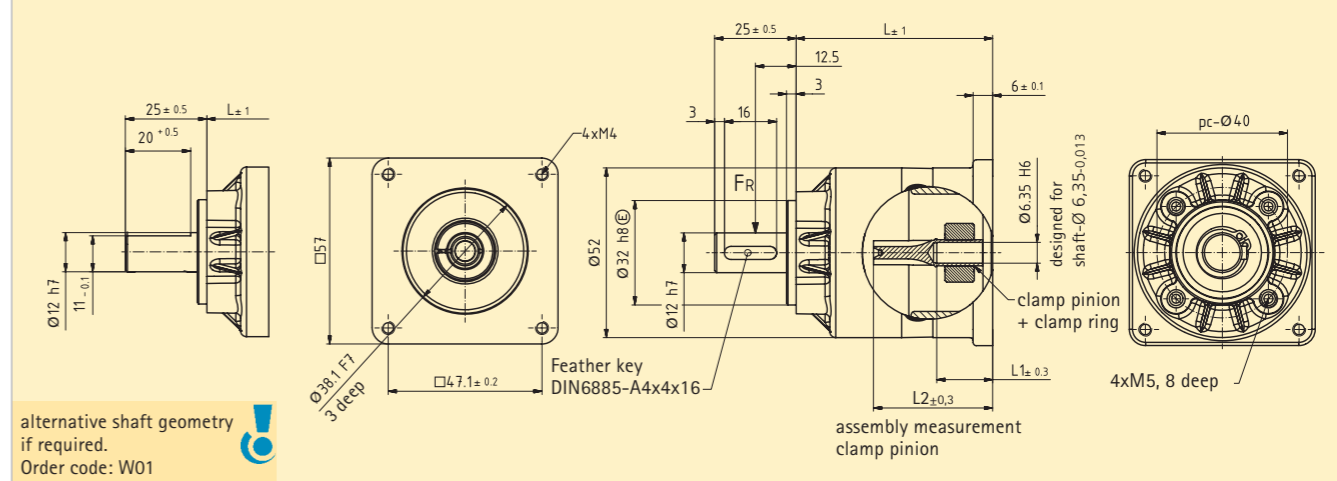
NEMA 23 Connection for spur gearheads



NEMA 23 with spur gearhead Compactline 91

No.	Reduction i / no. of stages	allowed torque M _{ab} [Nm]	Order No.	max. length of motor shaft L1 [mm]	assembly measurement L2 [mm]	total length L [mm]
Q 23.1	7,8 / 2	2	91.2.N23.C01	21	56,4	73
Q 23.2	9,2 / 2	2,3	91.2.N23.C02			
Q 23.3	11,1 / 2	2,8	91.2.N23.C03			
Q 23.4	13,8 / 2	3,5	91.2.N23.C04			
Q 23.5	18,4 / 2	4,7	91.2.N23.C05			
Q 23.6	22,0 / 2	5,6	91.2.N23.C06			
Q 23.7	27,6 / 2	7	91.2.N23.C07			
Q 23.8	41,3 / 3	8,1	91.3.N23.C08			
Q 23.9	67,3 / 3	9	91.3.N23.C09			

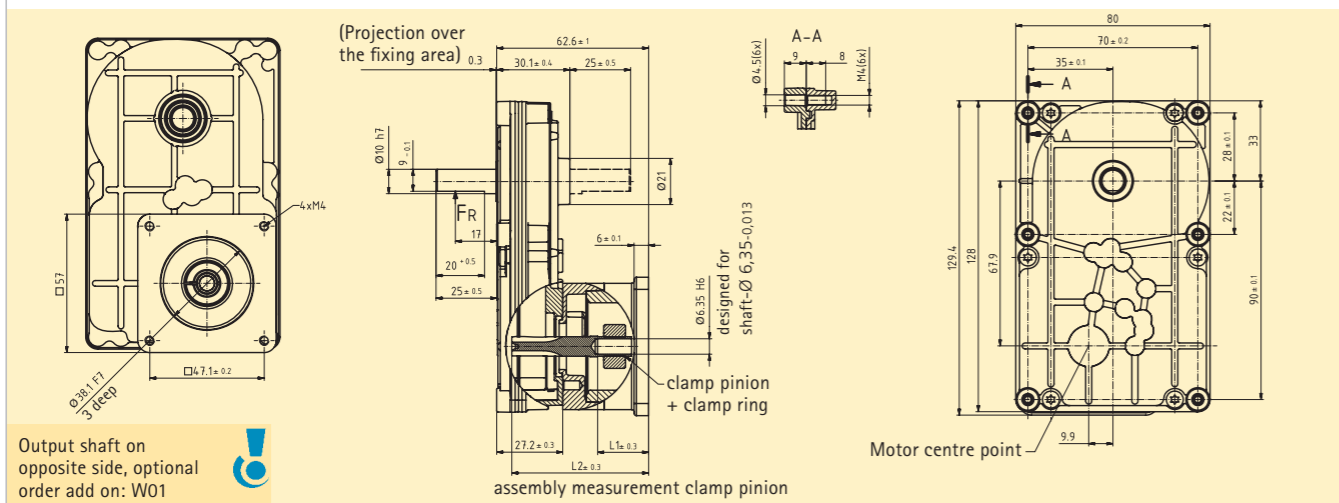
NEMA 23 Connection for planetary gearheads



alternative shaft geometry if required.
Order code: W01

NEMA 23 with planetary gearhead Performax 52

No.	Reduction i / no. of stages	allowed torque M _{ab} [Nm]	Order No.	max. length of motor shaft L1 [mm]	assembly measurement L2 [mm]	total length L [mm]
Q 23.28	5,0 / 1	3	52.1.N23.P01	17	36,6	60
Q 23.29	9,0 / 1	1,4	52.1.N23.P02	17	36,6	60
Q 23.30	17,0 / 1	0,9	52.1.N23.P03	18,5	36,6	60
Q 23.31	21,3 / 2	4,6	52.2.N23.P04	17	36,6	79
Q 23.32	30,0 / 2	14,9	52.2.N23.P05	17	36,6	79
Q 23.33	38,3 / 2	5,3	52.2.N23.P06	17	36,6	79
Q 23.34	54,0 / 2	7,4	52.2.N23.P07	17	36,6	79
Q 23.35	72,3 / 2	3,4	52.2.N23.P08	18,5	36,6	79
Q 23.36	102,0 / 2	4,7	52.2.N23.P09	18,5	36,6	79
Q 23.37	204,0 / 2	9,4	52.2.N23.P10	18,5	36,6	79

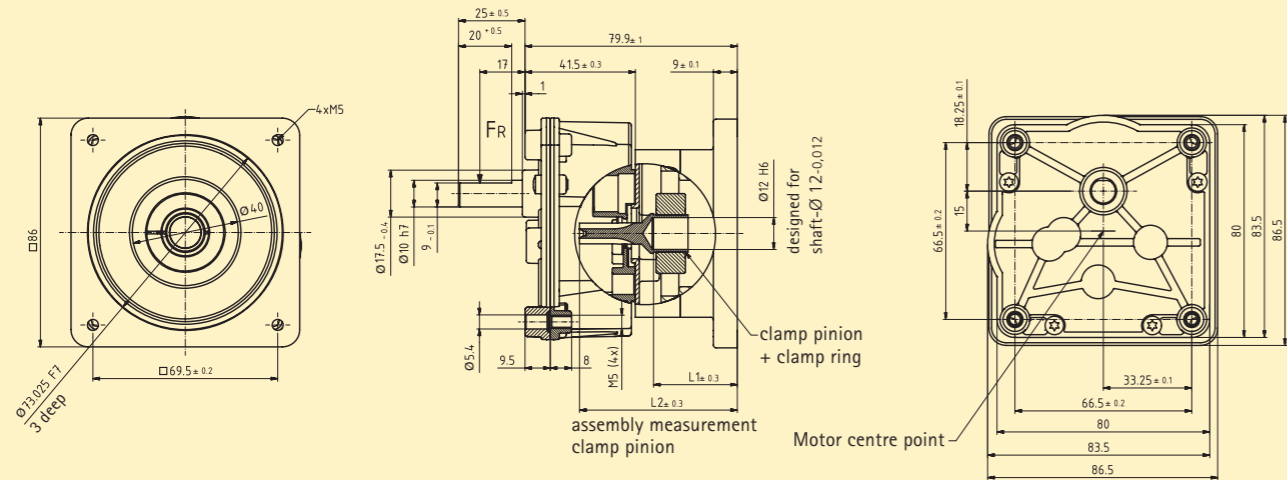


Output shaft on opposite side, optional order add on: W01

NEMA 23 with spur gearhead Flatline 85

No.	Reduction i / no. of stages	allowed torque M _{ab} [Nm]	Order No.	max. length of motor shaft L1 [mm]	assembly measurement L2 [mm]	total length L [mm]
Q 23.10	18,0 / 3	4,1	85.3.N23.F01	21	56,4	63
Q 23.11	27,6 / 3	6,3	85.3.N23.F02			
Q 23.12	40,3 / 3	9,2	85.3.N23.F03			
Q 23.13	64,0 / 3	14,6	85.3.N23.F04			
Q 23.14	101,8 / 3	23,2	85.3.N23.F05			
Q 23.15	136,5 / 3	25	85.3.N23.F06			
Q 23.16	189,0 / 3	25	85.3.N23.F07			
Q 23.17	303,6 / 4	29,1	85.4.N23.F08			
Q 23.18	454,5 / 4	30	85.4.N23.F09			

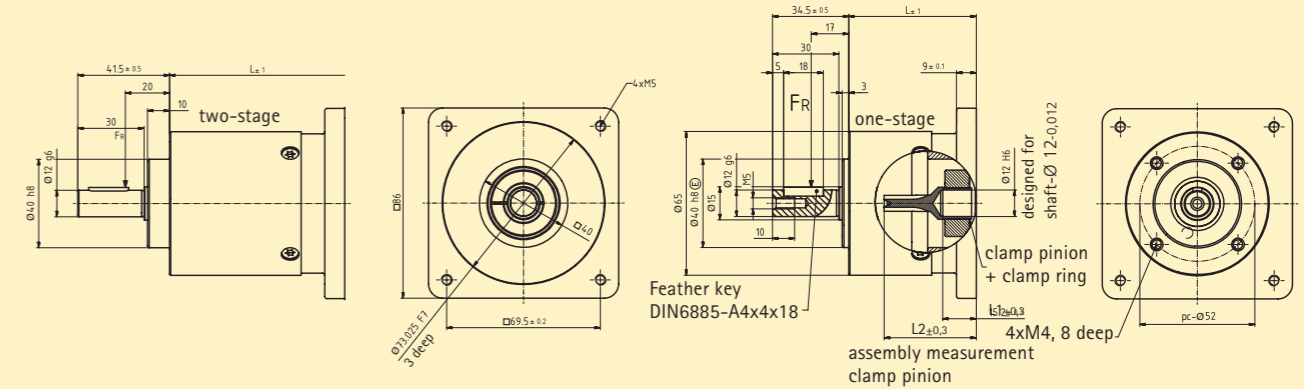
NEMA 34 Connection for spur gearheads



NEMA 34 with spur gearhead Compactline 92

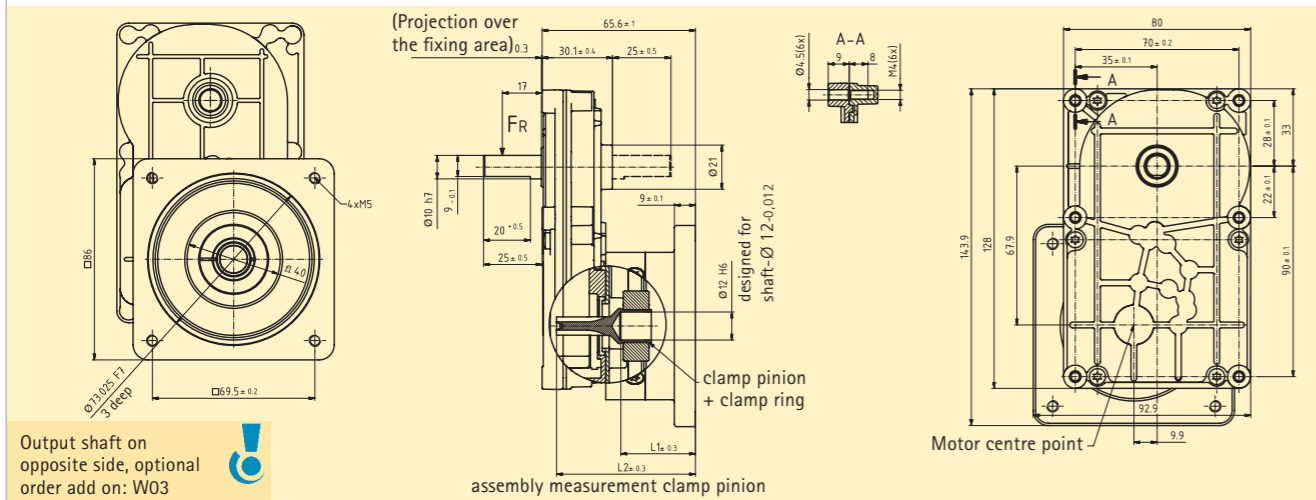
No.	Reduction i / no. of stages	allowed torque M _{ab} [Nm]	Order No.	max. length of motor shaft L1 [mm]	assembly measurement L2 [mm]	total length L [mm]
Q 34.1	15,5 / 2	3,9	92.2.N34.C01	31,5	59,4	80
Q 34.2	18,4 / 2	4,7	92.2.N34.C02			
Q 34.3	23,1 / 2	5,9	92.2.N34.C03			
Q 34.4	31,1 / 2	7,9	92.2.N34.C04			
Q 34.5	40,1 / 2	10,2	92.2.N34.C05			
Q 34.6	55,0 / 3	12,5	92.3.N34.C06	28,7	56,6	80
Q 34.7	70,4 / 3	15	92.3.N34.C07			
Q 34.8	92,3 / 3	15	92.3.N34.C08			

NEMA 34 Connection for planetary gearheads

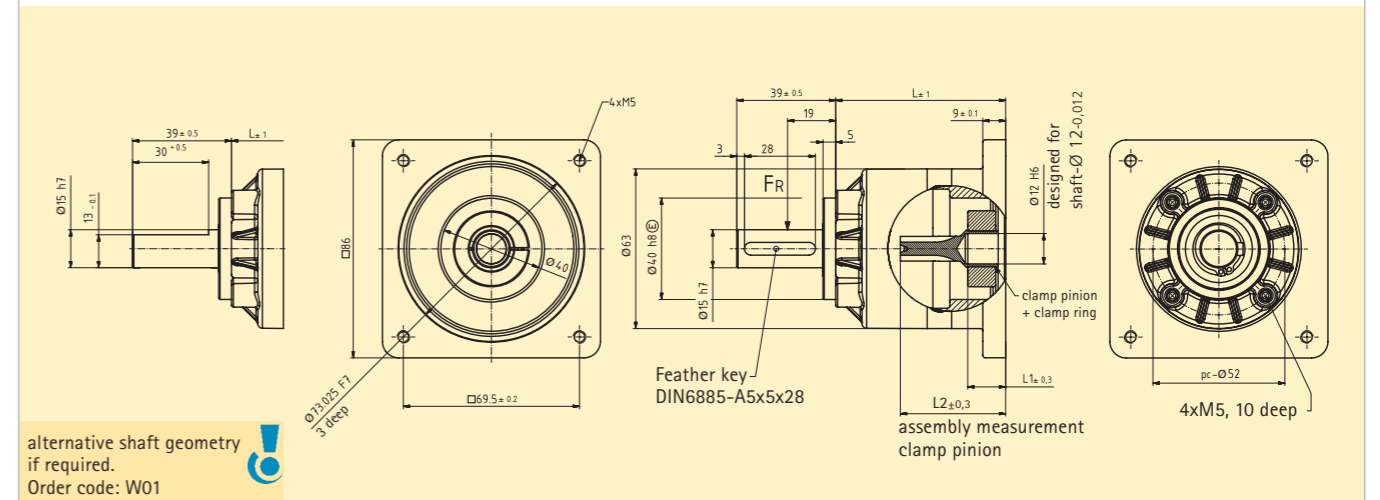


NEMA 34 with planetary gearhead Focus 65

No.	Reduction i / no. of stages	allowed torque M _{ab} [Nm]	Order No.	max. length of motor shaft L1 [mm]	assembly measurement L2 [mm]	total length L [mm]
Q 34.18	4,3 / 1	5,2	65.1.N34.F01	15,2	41,7	58
Q 34.19	6,0 / 1	4	65.1.N34.F02			
Q 34.20	11,0 / 1	2,7	65.1.N34.F03			
Q 34.21	19,2 / 2	22,2	65.2.N34.F04	15,2	41,7	80
Q 34.22	30,5 / 2	20,1	65.2.N34.F05			
Q 34.23	44,8 / 2	29,6	65.2.N34.F06			
Q 34.24	66,5 / 2	14,6	65.2.N34.F07			
Q 34.25	82,8 / 2	18,2	65.2.N34.F08			
Q 34.26	113,1 / 2	24,8	65.2.N34.F09			



Output shaft on opposite side, optional order add on: W03



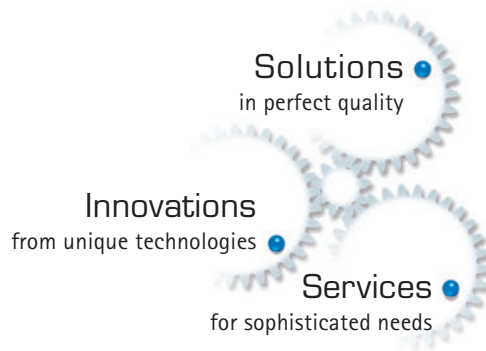
alternative shaft geometry if required. Order code: W01

Q NEMA 34 with spur gearhead Flatline 85

No.	Reduction i / no. of stages	allowed torque M _{ab} [Nm]	Order No.	max. length of motor shaft L1 [mm]	assembly measurement L2 [mm]	total length L [mm]
Q 34.9	18,0 / 3	4,1	85.3.N34.F01	31,8	59,4	66
Q 34.10	27,6 / 3	6,3	85.3.N34.F02			
Q 34.11	40,3 / 3	9,2	85.3.N34.F03			
Q 34.12	64,0 / 3	14,6	85.3.N34.F04			
Q 34.13	101,8 / 3	23,2	85.3.N34.F05			
Q 34.14	136,5 / 3	25	85.3.N34.F06	29	56,6	66
Q 34.15	189,0 / 3	25	85.3.N34.F07			
Q 34.16	303,6 / 4	29,1	85.4.N34.F08			
Q 34.17	454,5 / 4	30	85.4.N34.F09			

Q NEMA 34 with planetary gearhead Performax 63

No.	Reduction i / no. of stages	allowed torque M _{ab} [Nm]	Order No.	max. length of motor shaft L1 [mm]	assembly measurement L2 [mm]	total length L [mm]
Q 34.27	5,0 / 1	6,9	63.1.N34.P01	17,9	41,6	67
Q 34.28	9,0 / 1	2,2	63.1.N34.P02	14,9	41,6	67
Q 34.29	17,0 / 1	1,5	63.1.N34.P03	20,7	41,6	67
Q 34.30	21,3 / 2	12	63.2.N34.P04	17,9	41,6	89
Q 34.31	30,0 / 2	37,3	63.2.N34.P05	17,9	41,6	89
Q 34.32	38,3 / 2	8,3	63.2.N34.P06	14,9	41,6	89
Q 34.33	54,0 / 2	11,8	63.2.N34.P07	14,9	41,6	89
Q 34.34	72,3 / 2	5,9	63.2.N34.P08	20,7	41,6	89
Q 34.35	102,0 / 2	8,3	63.2.N34.P09	20,7	41,6	89
Q 34.36	204,0 / 2	16,5	63.2.N34.P10	20,7	41,6	89



it's time for tomorrow

We push back the limits of what's feasible every day. Our longstanding engineering expertise gives us the capability to lead the way in technological development. We have a range of products with an enormous potential for efficient all-round solutions to meet each individual facet of your needs.

We're your partner at every phase of the process chain, coming up with new ideas while keeping the big picture in mind. We have a wide range of product-specific knowledge for building the right drive designs for you.

We're always in tune with the times to offer you excellent ideas, outstanding innovations and hands-on services.

Services for sophisticated needs

Our well-rounded range of effective services adds to your advantages. We assume responsibility for the finished, delivered product providing you with reliability, attentiveness and excellent performance throughout the entire product design and manufacturing cycles. Our employees, who daily live out their commitment to service, are your guarantee for success

The bottom line is service unparalleled in the market.