

Clutch / brake units

RotaStep type 10



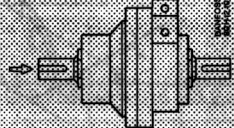
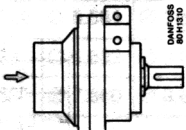
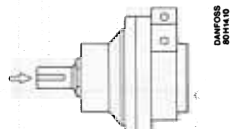
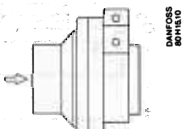
Data Sheet

The Danfoss *RotaStep* is a compressed air activated clutch / brake unit.

The product range comprises five *RotaStep* sizes, covering the torque range (dynamic torque) of 2.2 to 88.5 lb.ft.

Each *RotaStep* size will be available in four types.

RotaStep type 10 is the solid/solid shaft version.

<i>RotaStep</i> U2 <i>RotaStep</i> U3 <i>RotaStep</i> U4 <i>RotaStep</i> U5 <i>RotaStep</i> U6	Type 10	Solid/solid shaft		Data sheet no.
<i>RotaStep</i> U2 <i>RotaStep</i> U3 <i>RotaStep</i> U4 <i>RotaStep</i> U5 <i>RotaStep</i> U6	Type 20	Hollow/solid shaft		FD.60.B3
<i>RotaStep</i> U2 <i>RotaStep</i> U3 <i>RotaStep</i> U4 <i>RotaStep</i> U5 <i>RotaStep</i> U6	Type 30	Solid/hollow shaft		FD.60.C1
<i>RotaStep</i> U2 <i>RotaStep</i> U3 <i>RotaStep</i> U4 <i>RotaStep</i> U5 <i>RotaStep</i> U6	Type 40	Hollow/hollow shaft		FD.60.D1

Product identification

Example: Rota U6 10
 Size: *RotaStep* U6
 Type: Type 10

RotaStep size U3, U4, U5, and U6

Input

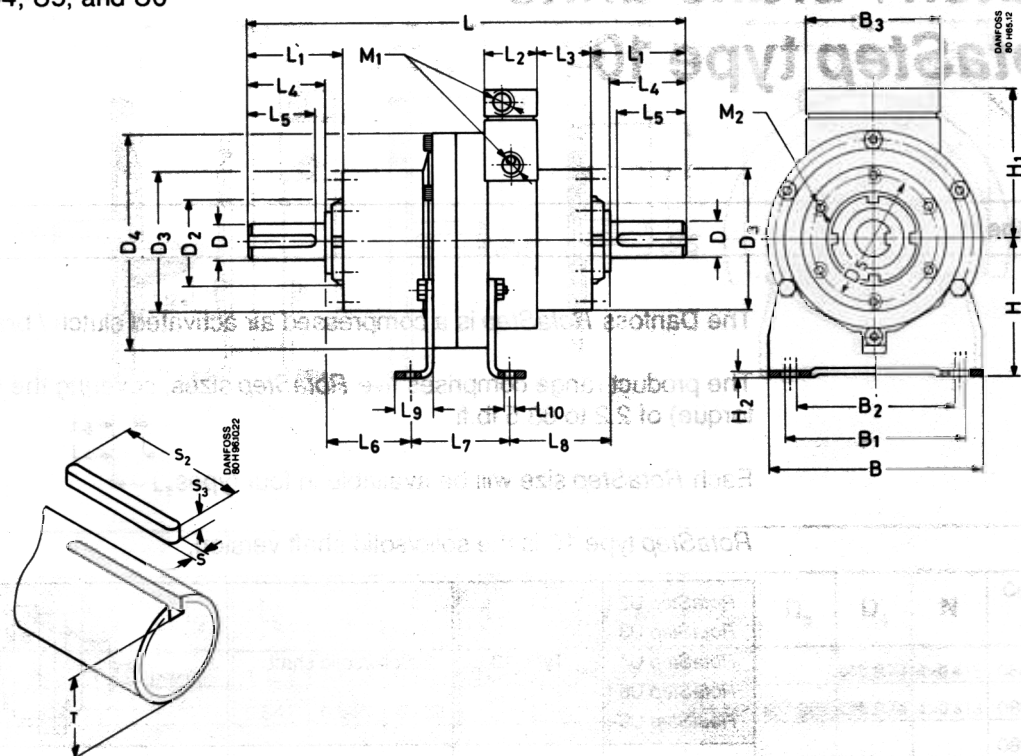


Fig. 1

RotaStep size U2

Input

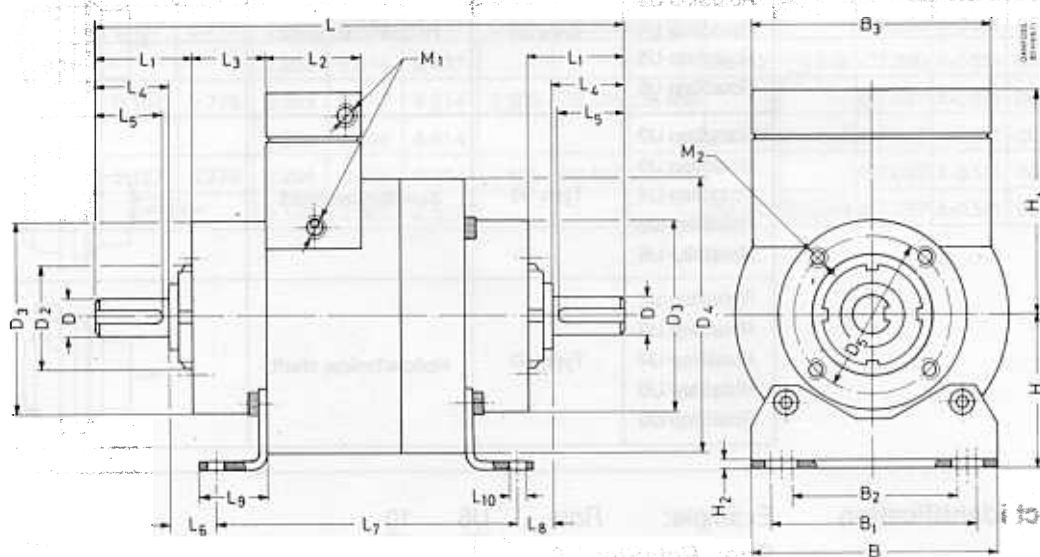


Fig. 2

Ordering

<i>RotaStep</i> size/type	Torque range [lb.ft.]	D [in]	Weight [lb]	Code no. <i>RotaStep</i> unit	Code no. bracket
U210	2.2- 6.6	0.625	7.9	080H1211	080H0016
U310	4.4-13.2	0.875	11.0	080H2211	080H0019
U410	8.8-26.4	1.125	16.3	080H3211	080H0022
U510	16.2-48.6	1.375	17.4	080H4211	080H0025
U610	29.5-88.5	1.375	26.2	080H5211	080H0028

Dimensions

<i>RotaStep</i> size/type	L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	L ₉	L ₁₀	B	B ₁	B ₂	B ₃
U210	10.118	2.441	1.378	1.122	2.047	1.496	0.847	4.232	0.945	0.984	0.276	3.937	3.268	2.874	3.484
U310															
U410	12.910	3.236	1.378	1.378	2.764	2.165	2.126	2.795	2.460	0.984	0.276	5.512	4.843	4.449	3.484
U510	14.125	3.755	1.378	1.063	3.283	2.559	2.047	3.071	2.441	1.102	0.276	6.496	5.630	5.236	3.484
U610	14.125	3.755	1.575	1.063	3.283	2.559	1.968	3.228	2.362	1.181	0.354	7.480	6.614	6.260	4.567

<i>RotaStep</i> size/type	H	H ₁	H ₂	D	D ₂	D ₃	D ₄	D ₅	M ₁	M ₂
U210	2.795	3.315	0.157	Ø 0.625	Ø 1.496	Ø 2.756	Ø 4.016	Ø 2.283	G1/4	4×M5×15
U310										
U410	3.543	3.858	0.157	Ø 1.125	Ø 2.205	Ø 3.622	Ø 5.591	Ø 3.150	G1/4	6×M6×15
U510	3.937	4.094	0.157	Ø 1.375	Ø 2.205	Ø 4.331	Ø 6.693	Ø 3.661	G3/8	4×M8×15
U610	3.937	4.331	0.157	Ø 1.375	Ø 2.205	Ø 4.331	Ø 7.560	Ø 3.661	G3/8	4×M8×15

Key

<i>RotaStep</i> Size/type	D	T	S	S ₂	S ₃
U210	Ø0.625	0.518	3/16	1.378	3/16
U310					
U410	Ø1.125	0.984	1/4	1.969	1/4
U510	Ø1.375	1.190	5/16	2.362	5/16
U610	Ø1.375	1.190	5/16	2.362	5/16

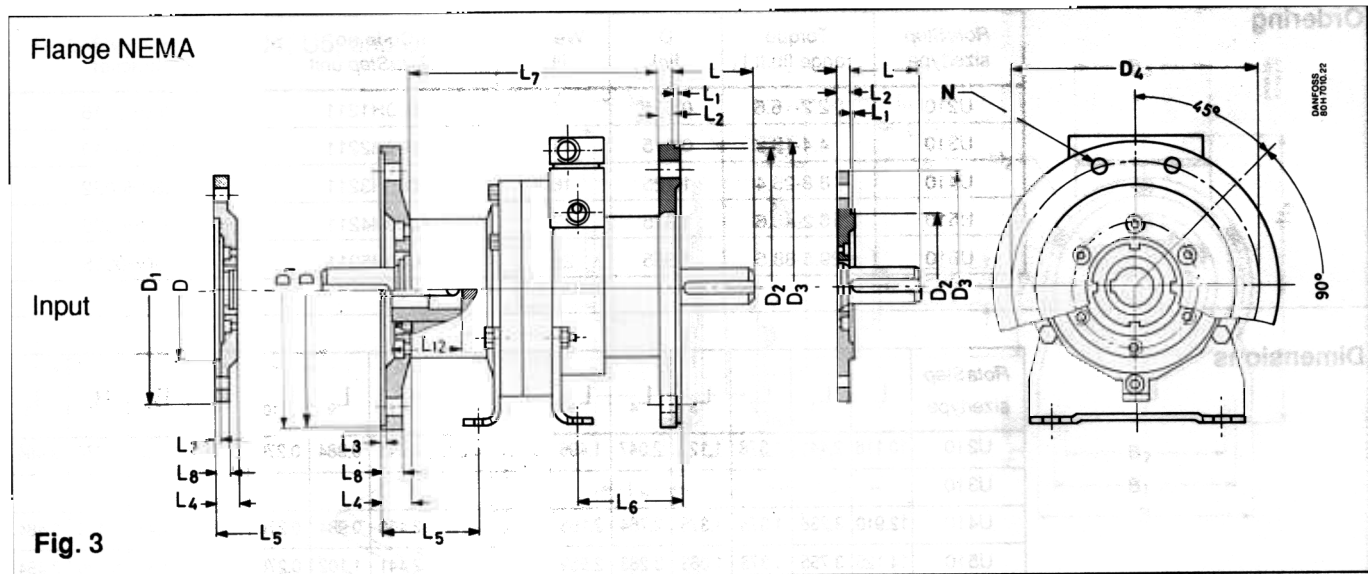


Fig. NEMA for <i>RotaStep</i> size/type	L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	D	D ₁	D ₂	D ₃	D ₄	N	Code no. 1 pcs.
U210 Intern.				0.177	0.669	1.122	1.220	5.236	0.433	Ø4.508	Ø7.087			Ø5.874	4x0.413	080H0120
U210 Extern.	2.047	0.138	0.394			0.847	0.945	5.236				Ø4.508	Ø7.087	Ø5.874	4x0.413	080H0121
U310 Intern.																080H0123
U310 Extern.																080H0124
U410 Intern.				0.157	0.778	2.442	2.776	6.437	0.500	Ø8.508	Ø8.858			Ø7.250	4x0.551	080H0125
U410 Extern.	2.921	0.315	0.315			2.284	2.618	6.437				Ø8.500	Ø8.858	Ø7.250	4x0.551	080H0126
U510 Intern.				0.157	0.778	2.363	2.757	6.614	0.500	Ø8.508	Ø8.858			Ø7.087	4x0.551	080H0128
U510 Extern.	3.440	0.315	0.315			2.205	2.598	6.614				Ø8.465	Ø9.843	Ø7.087	4x0.551	080H0129
U610 Intern.				0.157	0.778	2.284	2.678	6.614	0.500	Ø8.508	Ø8.858			Ø7.087	4x0.551	080H0128
U610 Extern.	3.440	0.315	0.315			2.126	2.590	6.614				Ø8.465	Ø9.843	Ø7.087	4x0.551	080H0129