

LOAD LIMITER

12

On hoists of sizes SM1, SM2, SM3, the load limiter is made up of Belleville washers arranged in a box unit that is mounted to a structure. The fixed point or the jack shaft pulley exerts a force downwards, from which a relocation of a few millimeters downwards results for the jack shaft subassembly. This movement actuates a limit switch in the event of an overload.

Washer assembly SM1 to SM3:

Hoist	Load (kg)	Load (Ton)	Spring washer	Number	Assembly Arrangement
SM102...R	630	---	E	12	1x1
SM102...R	800	---	E	8	1x1
SM102...R	1000	---	E	12	2x2
SM104...R	1250	---	D	10	1x1
SM104...R	1600	---	D	8	1x1
SM104...R	2000	---	C	8	1x1
SM102...F&N	630	---	F	8	1x1
SM102...F&N	800	---	E	11	1x1
SM102...F&N	1000	---	F	14	2x2
SM104...F&N	1250	---	F	16	2x2
SM104...F&N	1600	---	D	10	1x1
SM104...F&N	2000	---	C	8	1x1
SM102...R,F&N	----	0.5	F	8	1x1
SM102...R,F&N	----	0.75	E	12	1x1
SM102...R	----	1.0	E	12	1x1
SM102...F&N	----	1.0	D	10	1x1
SM104...R	----	1.0	E	12	1x1
SM104...F&N	----	1.0	D	10	1x1
SM104...F&N	----	1.5	D	10	1x1
SM104...F&N	----	2.0	C	10	1x1
SM202...R	1250	---	F	18	2x2
SM202...R	1600	---	D	10	1x1
SM202...R	2000	---	C	10	1x1
SM204...R	2500	---	B	9	1x1
SM204...R	3200	---	A	9	1x1
SM204...R	4000	---	A	9	1x1
SM202...F&N	1250	---	F	18	2x2
SM202...F&N	1600	---	C	10	1x1
SM202...F&N	2000	---	B	9	1x1
SM204...F&N	2500	---	B	9	1x1
SM204...F&N	3200	---	A	9	1x1

LOAD LIMITER	12
---------------------	-----------

Hoist	Load (kg)	Load (Ton)	Spring washer	Number	Assembly
SM204...F&N	4000	---	C	12	2x2
SM202...R,F&N	----	1.0	D	10	1x1
SM202...R	----	1.5	D	10	1x1
SM202...F&N	----	1.5	C	10	1x1
SM202...R,F&N	----	2.0	C	10	1x1
SM204...R,F&N	----	2.5	B	9	1x1
SM204...R,F&N	----	3.0	A	9	1x1
SM204...R,F&N	----	4.0	C	12	2x2
SM304...R	6300	---	C	12	2x2
SM302...F&N	1600	---	D	10	1x1
SM302...F&N	2000	---	C	10	1x1
SM302...F&N	2500	---	C	9	1x1
SM302...F&N	3200	---	B	10	2x2
SM304...F&N	3200	---	A	9	1x1
SM304...F&N	4000	---	A	9	1x1
SM304...F&N	5000	---	C	12	2x2
SM304...F&N	6300	---	A	10	2x2
SM302...R, F&N	----	1.5	D	10	1x1
SM302...R, F&N	----	2.0	C	10	1x1
SM302...R, F&N	----	2.5	B	9	1x1
SM302...R	----	3.0	B	9	1x1
SM302...F&N	----	3.0	A	9	1x1
SM304...R, F&N	----	3.0	A	9	1x1
SM304...R, F&N	----	4.0	C	12	2x2
SM304...R, F&N	----	5.0	C	12	2x2
SM304...R	----	6.0	B	10	2x2
SM304...F&N	----	6.0	A	10	2x2

R = Low Headroom Trolley, F = Foot Mount, N = Standard Headroom Trolley. For double girder trolley, use F suspension arrangement.

LOAD LIMITER

12

On hoist of types SM3 6 falls, SM4, SM5, SM6, the load deforms a flat « spring » with a shape of « C » or « H ». This deformation likewise incurs a movement downward of some millimeters, with the same consequences.

Hoist	Load	Spring type	Reference
SM306 1Am, 1Bm...	All	Profile C	YLS003A2
SM306 2m, 3m...	All	Profile C	YLS002A2
SM402... (except R)	All	Profile C	YLS003A2
SM404... (except R)	All	Profile H	VSSA050B1
SM402... (R)	All	Profile H	V4LAB29A1
SM404... (R)	All	Profile H	V4LAB25A1
SM406...	All	Profile C	YLS003A2
SM5021..	All	Profile H	VSSA060B1
SM5041..	All	Profile H	VSSA060B1
SM5061..	All	Profile C	YLS004A2
SM5042.. (OD & OE)	All	Profile H	VSSA060A1
SM504214(except OD&OE)	All	Profile C	SSA041A1
SM50421-(except OD&OE)	All	Profile C	SSA040A4
SM50-2.. (except 4/2)	All	Profile C	SSA050A3
SM60-1..	All	Profile C	SSA090A5
SM604214	All	Profile C	SSA050A3
SM60421-	All	Profile C	SSA060A4
SM60-2.. (except 4/2)	All	Profile C	SSA060A4

R = Low Headroom Trolley, F = Foot Mount, N = Standard Headroom Trolley. For double girder trolley, use F suspension arrangement.

LOAD LIMITER

12

