

Energy Efficiency Certificate



Drive efficiency according to IEC/EN 61800-9-2 (supersedes EN 50598-2)

Goodrive270 Series Energy Efficiency Certificate



Version: 1.2

Energy Efficiency Certificate



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Table A Power Losses and IE class

Model	Relative loss (%)								Standby Loss(w)	IE Class
	(0;25)	(0;50)	(0;100)	(50;25)	(50;50)	(50;100)	(90;50)	(90;100)		
GD270-1R5-4(-C2)(-EU)	0.78	0.95	1.03	0.86	1.17	1.23	1.35	2.02	13	IE2
GD270-2R2-4(-C2)(-EU)	0.82	0.76	0.55	1.09	1.11	1.07	1.59	1.76	17	IE2
GD270-004-4(-C2)(-EU)	0.74	1.20	1.55	1.15	1.28	1.89	1.45	2.29	16	IE2
GD270-5R5-4(-C2)(-EU)	0.71	0.97	1.32	1.02	1.21	1.83	1.34	2.18	17	IE2
GD270-7R5-4(-C2)(-EU)	0.68	0.78	1.75	0.76	1.03	1.79	1.22	2.06	20	IE2
GD270-011-4 (-L1/-C2)(-EU)	0.65	0.89	1.62	0.66	1.37	1.43	1.38	2.28	27	IE2
GD270-015-4(-L1/-C2)(-EU)	0.96	1.30	2.26	0.74	0.90	1.43	0.87	1.49	27	IE2
GD270-018-4 (-L1/-C2)(-EU)	0.72	0.95	1.57	1.20	1.46	2.17	1.47	2.26	30	IE2
GD270-022-4 (-L1/-C2)(-EU)	0.67	0.87	1.44	1.07	1.29	1.92	1.27	2.04	30	IE2
GD270-030-4(-L1)(-C3)(-EU)	0.71	0.98	1.76	1.22	1.89	2.42	2.17	2.83	30	IE2
GD270-037-4(-L1)(-C3)(-EU)	0.67	0.85	1.60	1.09	1.75	2.37	1.91	2.73	30	IE2
GD270-045-4(-L1)(-C3)(-EU)	0.47	0.62	1.14	1.09	1.27	1.90	1.52	2.02	30	IE2
GD270-055-4(-L1)(-C3)(-EU)	0.42	0.69	1.04	0.98	1.19	1.72	1.45	1.88	31	IE2
GD270-075-4(-L1)(-C3)(-EU)	0.52	0.80	1.35	1.06	1.42	2.10	1.67	2.23	32	IE2
GD270-090-4(-L1)(-C3)(-EU)	0.40	0.72	1.29	0.93	1.31	1.98	1.58	2.11	31	IE2
GD270-110-4(-L1)(-C3)(-EU)	0.42	0.69	1.20	0.84	0.98	1.67	1.27	1.72	33	IE2
GD270-132-4(-L1)(-C3)(-EU)	0.50	0.65	1.28	0.97	1.12	1.74	1.22	1.85	35	IE2
GD270-160-4(-L1)(-C3)(-EU)	0.61	1.01	1.52	1.37	1.32	2.02	1.42	2.14	37	IE2
GD270-185-4(-L1)(-C3)(-EU)	0.56	0.95	1.45	1.13	1.19	1.88	1.37	2.07	37	IE2
GD270-200-4(-L1)(-C3)(-EU)	0.48	0.81	1.33	0.99	1.08	1.78	1.28	1.99	38	IE2
GD270-220-4(-Ln)(-C3)(-EU) *	0.59	0.85	1.76	1.24	1.58	2.61	1.68	2.65	40	IE2
GD270-250-4(-Ln)(-C3)(-EU) *	0.65	0.91	1.86	1.33	1.72	2.79	1.73	2.85	42	IE2
GD270-280-4(-Ln)(-C3)(-EU) *	0.68	0.98	1.92	1.27	1.61	2.54	1.62	2.69	48	IE2
GD270-315-4(-Ln)(-C3)(-EU) *	0.66	0.94	1.88	1.19	1.49	2.45	1.56	2.54	50	IE2
GD270-355-4(-Ln)(-C3)(-EU) *	0.72	1.01	1.87	1.11	1.37	2.30	1.47	2.47	52	IE2
GD270-400-4(-Ln)(-C3)(-EU) *	0.78	0.82	1.64	1.14	1.38	2.25	1.43	2.31	55	IE2
GD270-450-4(-Ln)(-C3)(-EU) *	0.75	0.89	1.52	1.08	1.27	2.16	1.37	2.23	58	IE2
GD270-500-4(-Ln)(-C3)(-EU) *	0.73	0.78	1.40	0.90	1.10	1.90	1.25	2.16	60	IE2

*Note: n is 1 or 3 depending on the product selection

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Table B Rated specifications

Model	Apparent Power (kVA)	Rated output Power (kW)	Rated output Current (A)	Max working Temp (°C)	Rated Power Freq.(Hz)	Rated Power Volt (V)
GD270-1R5-4(-C2)(-EU)	2.44	1.5	3.7	50°C; (When temp exceeds 40°C, Derate by 1% for every 1°C increase)	50Hz/60Hz Allowed range:47- 63Hz	3PH 380- 480
GD270-2R2-4(-C2)(-EU)	3.98	2.2	5			
GD270-004-4(-C2)(-EU)	6.2	4	9.5			
GD270-5R5-4(-C2)(-EU)	8.6	5.5	13			
GD270-7R5-4(-C2)(-EU)	12.2	7.5	17			
GD270-011-4 (-L1/-C2)(-EU)	16.5	11	25			
GD270-015-4(-L1/-C2)(-EU)	21	15	32			
GD270-018-4 (-L1/-C2)(-EU)	24	18.5	38			
GD270-022-4 (-L1/-C2)(-EU)	30	22	45			
GD270-030-4(-L1)(-C3)(-EU)	39.5	30	60			
GD270-037-4(-L1)(-C3)(-EU)	49	37	75			
GD270-045-4(-L1)(-C3)(-EU)	60	45	92			
GD270-055-4(-L1)(-C3)(-EU)	75.7	55	115			
GD270-075-4(-L1)(-C3)(-EU)	98.7	75	150			
GD270-090-4(-L1)(-C3)(-EU)	120	90	180			
GD270-110-4(-L1)(-C3)(-EU)	142	110	215			
GD270-132-4(-L1)(-C3)(-EU)	172	132	250			
GD270-160-4(-L1)(-C3)(-EU)	200	160	305			
GD270-185-4(-L1)(-C3)(-EU)	217	185	330			
GD270-200-4(-L1)(-C3)(-EU)	250	200	380			
GD270-220-4(-Ln)(-C3)(-EU) *	280	220	425			
GD270-250-4(-Ln)(-C3)(-EU) *	316	250	460			
GD270-280-4(-Ln)(-C3)(-EU) *	349	280	530			
GD270-315-4(-Ln)(-C3)(-EU) *	395	315	600			
GD270-355-4(-Ln)(-C3)(-EU) *	425	355	650			
GD270-400-4-Ln(-C3)(-EU) *	474	400	720			
GD270-450-4-Ln(-C3)(-EU) *	540	450	820			
GD270-500-4-Ln(-C3)(-EU) *	566	500	860			

*Note: n is 1or 3 depending on the product selection

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Efficiency data for the Drive

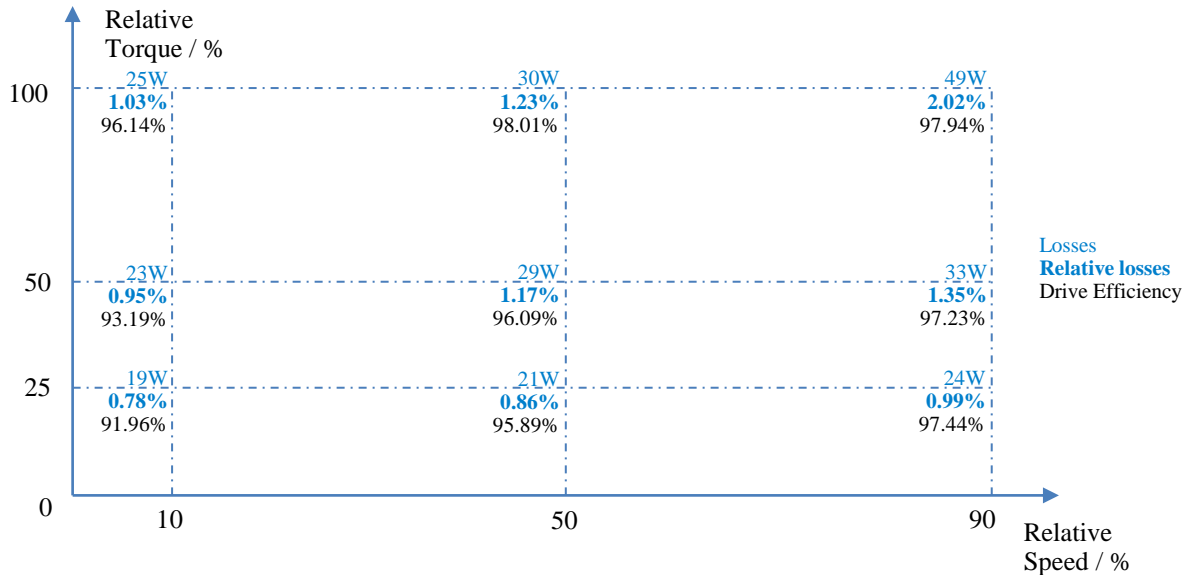
Series :GD270-1R5-4(-C2)(-EU)
Nominal voltage : AC 3PH 380V
Nominal power :1.5kW

Nominal current :3.7A
Nominal apparent power :2.44kVA
Nominal frequency :50Hz

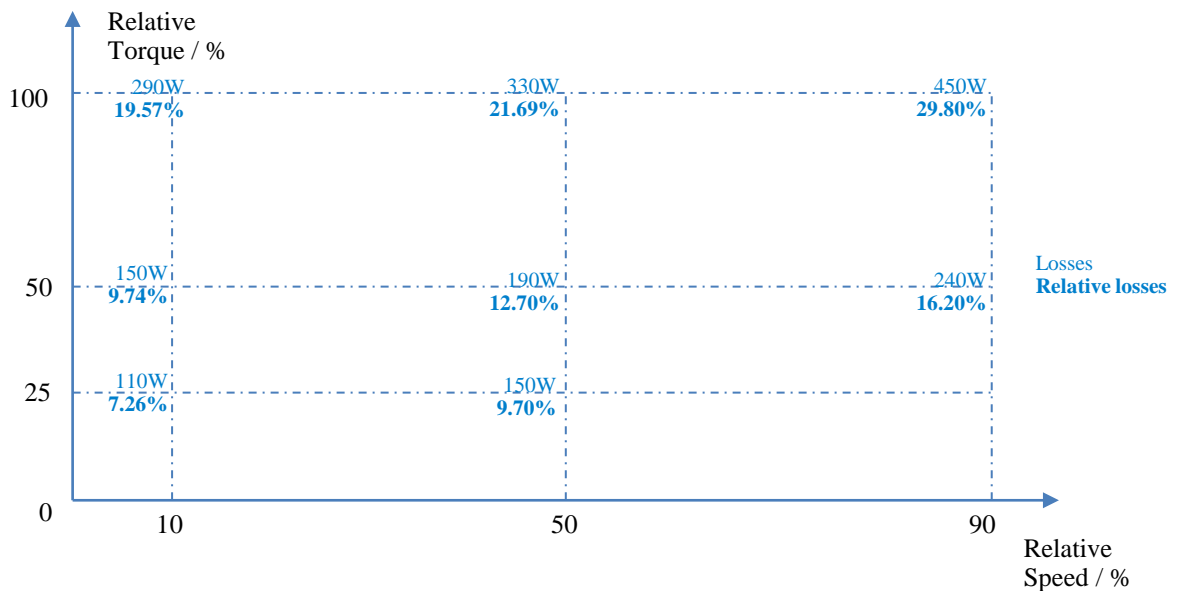


Efficiency data for the Drive

Standby losses: 16W



Efficiency data for the Drive + motor (standard IE2 reference motor)



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Efficiency data for the Drive

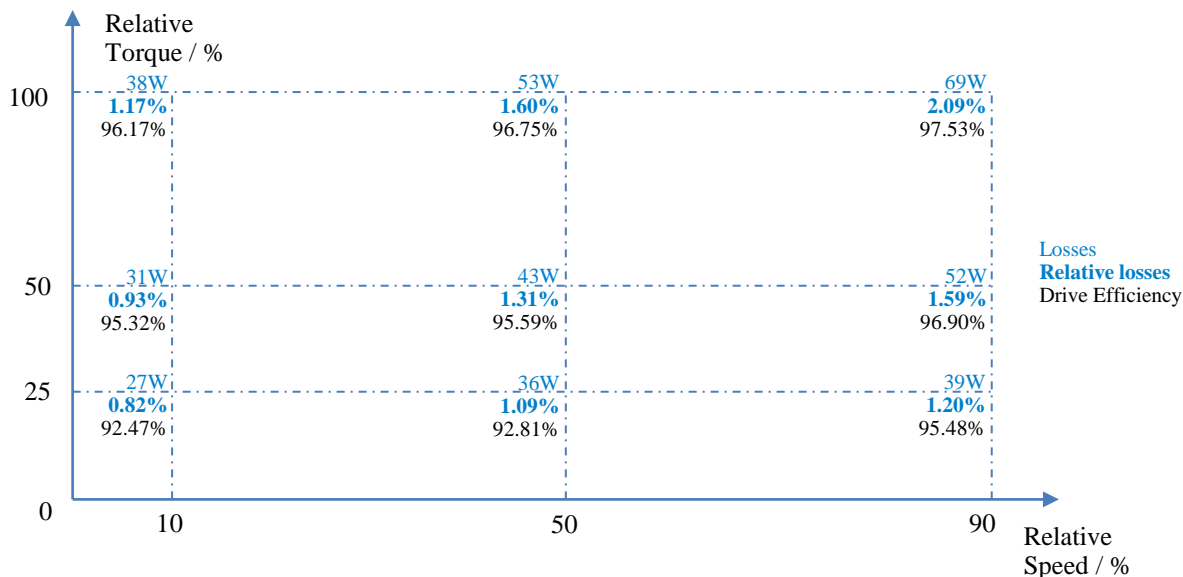
Series :GD270-2R2-4(-C2)(-EU)
Nominal voltage : AC 3PH 380V
Nominal power :2.2kW

Nominal current :5A
Nominal apparent power :3.98kVA
Nominal frequency :50Hz

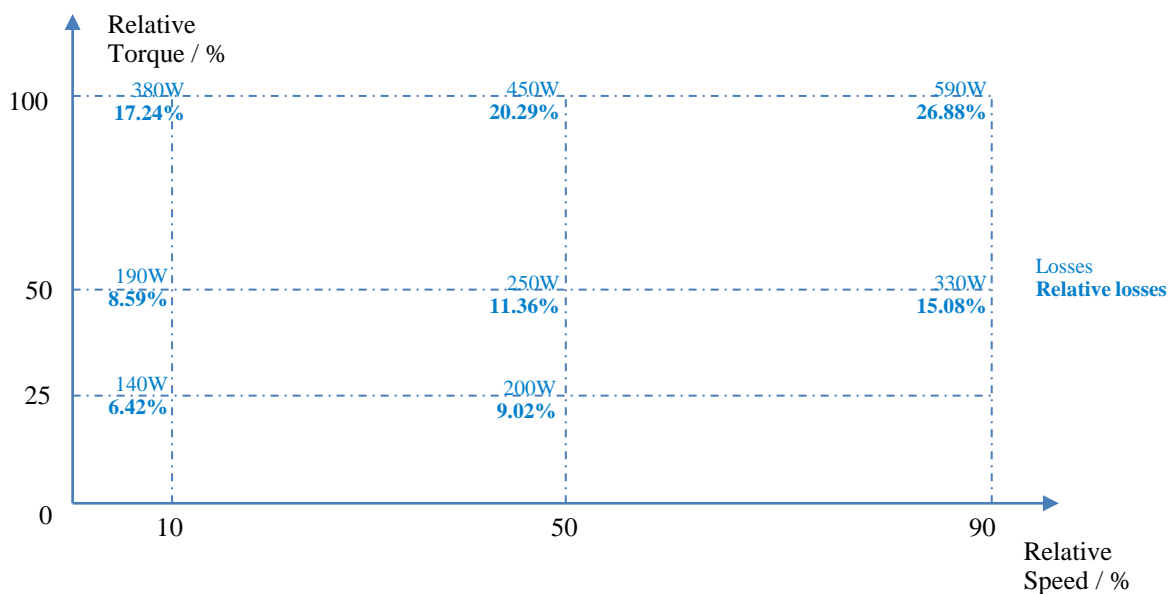


Efficiency data for the Drive

Standby losses: 16W



Efficiency data for the Drive + motor (standard IE2 reference motor)



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Drive efficiency according to IEC/EN 61800-9-2 (supersedes EN 50598-2)



Efficiency data for the Drive

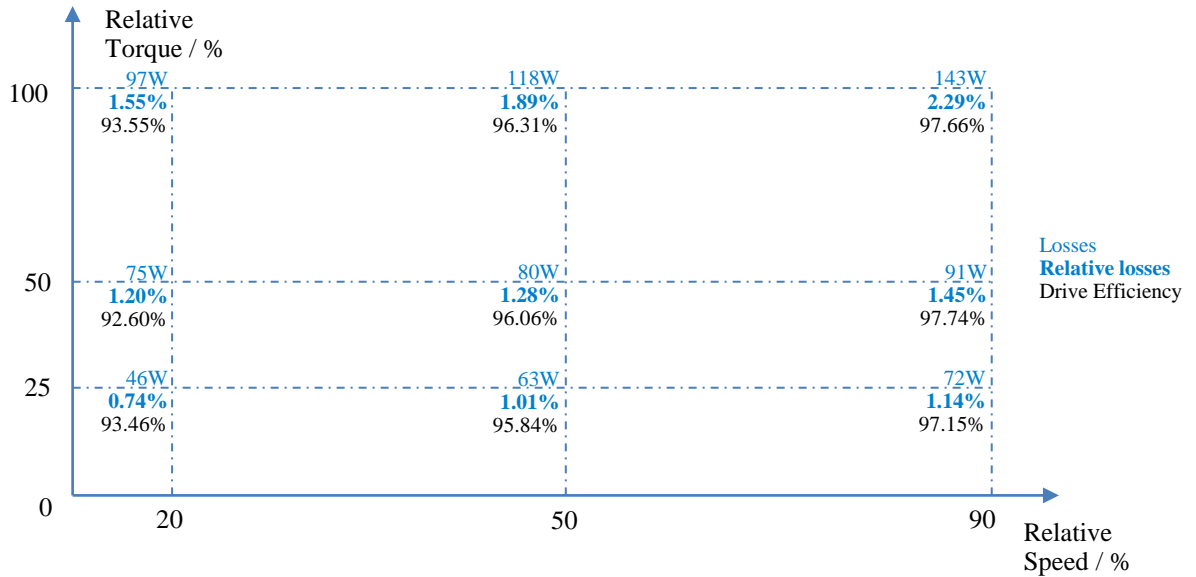
Series :GD270-004-4(-C2) (-EU)
 Nominal voltage : AC 3PH 380V
 Nominal power :4kW

Nominal current :9.5A
 Nominal apparent power :6.2kVA
 Nominal frequency :50Hz

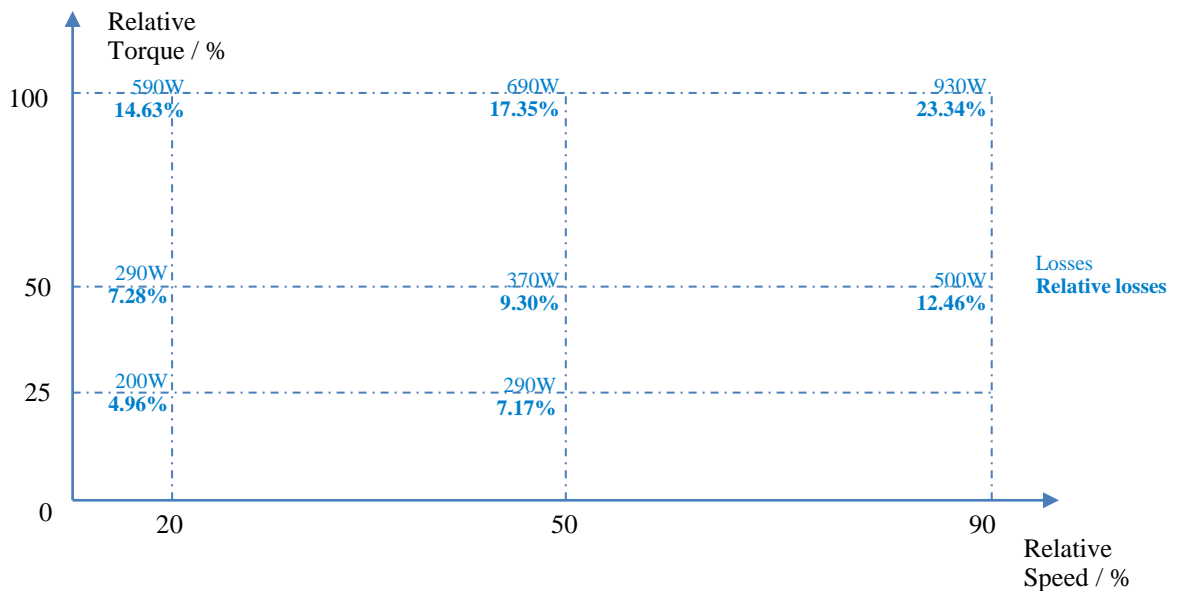


Efficiency data for the Drive

Standby losses: 16W



Efficiency data for the Drive + motor (standard IE2 reference motor)



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Efficiency data for the Drive

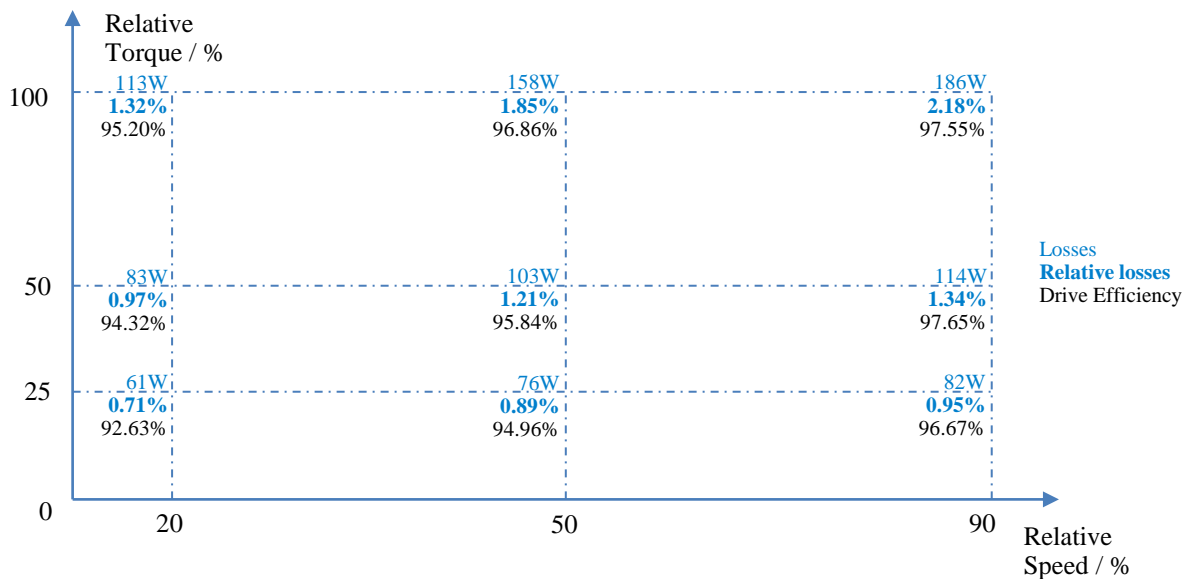
Series :GD270-5R5-4 (-C2) (-EU)
 Nominal voltage : AC 3PH 380V
 Nominal power :5.5kW

Nominal current :13A
 Nominal apparent power :8.6kVA
 Nominal frequency :50Hz

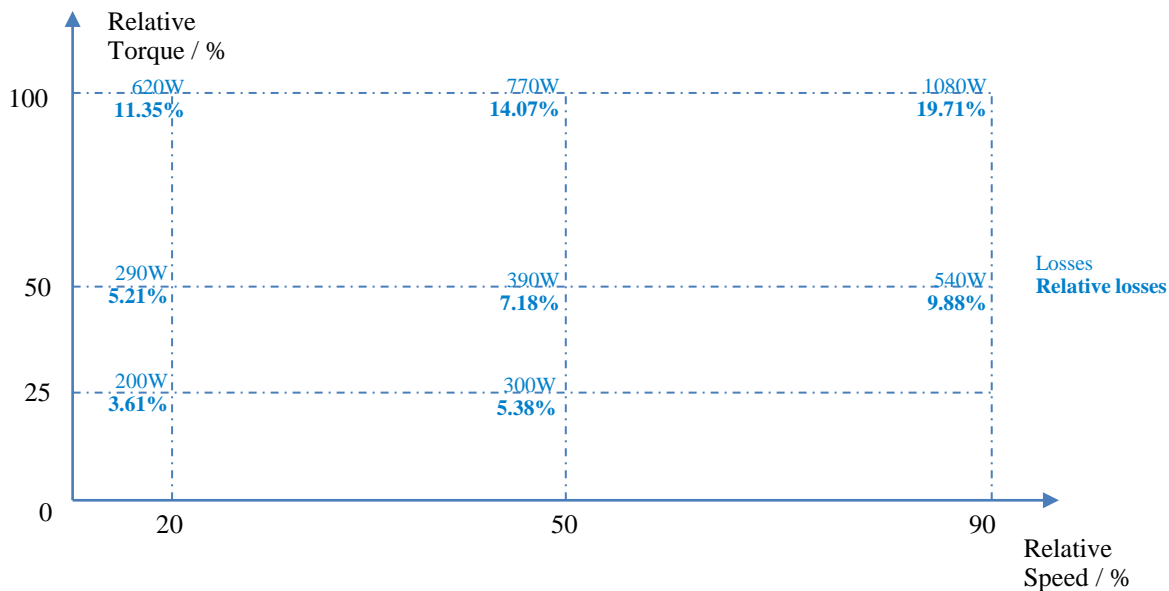


Efficiency data for the Drive

Standby losses: 16W



Efficiency data for the Drive + motor (standard IE2 reference motor)



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Efficiency data for the Drive

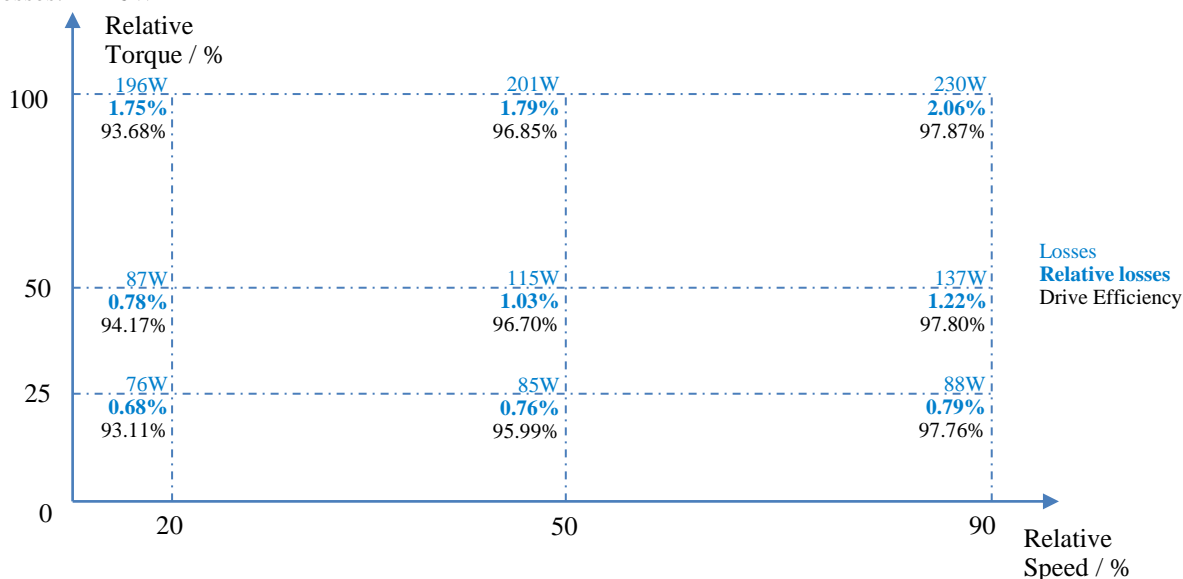
Series :GD270-7R5-4 (-C2) (-EU)
 Nominal voltage : AC 3PH 380V
 Nominal power :7.5kW

Nominal current :17A
 Nominal apparent power :12.2kVA
 Nominal frequency :50Hz

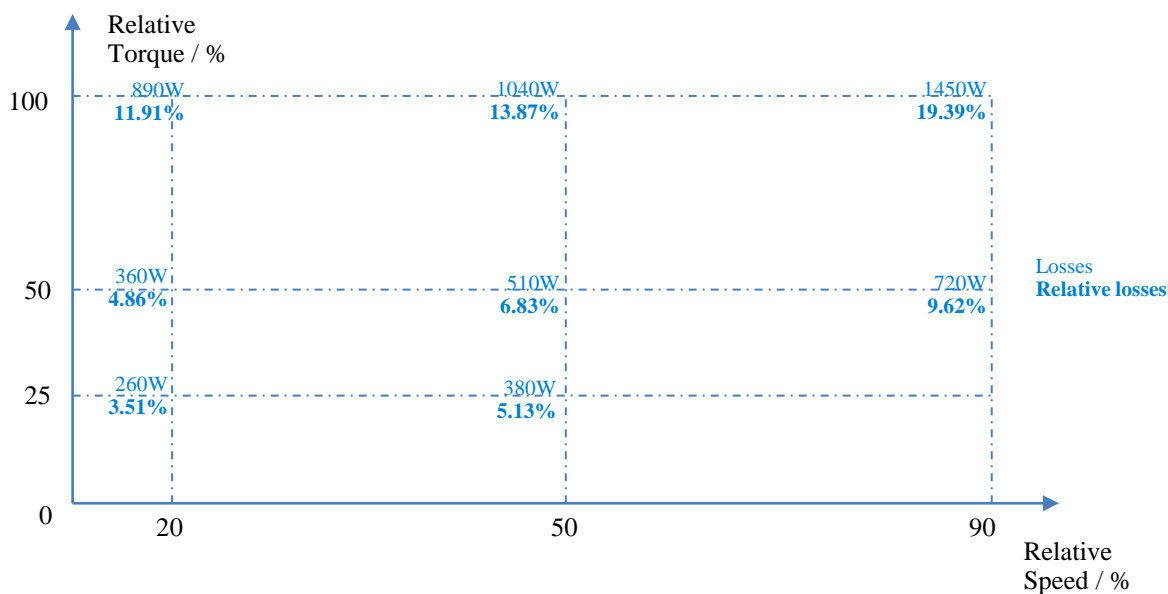


Efficiency data for the Drive

Standby losses: 16W



Efficiency data for the Drive + motor (standard IE2 reference motor)



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Efficiency data for the Drive

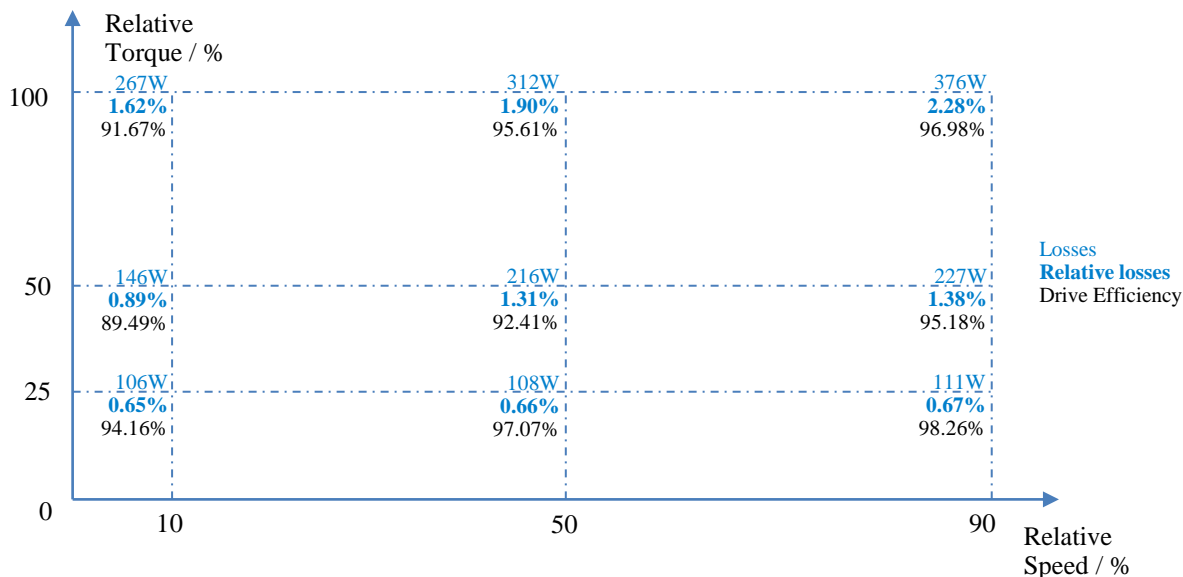
Series :GD270-011-4 (-L1/-C2)(-EU)
 Nominal voltage : AC 3PH 380V
 Nominal power :11kW

Nominal current :25A
 Nominal apparent power :16.5kVA
 Nominal frequency :50Hz

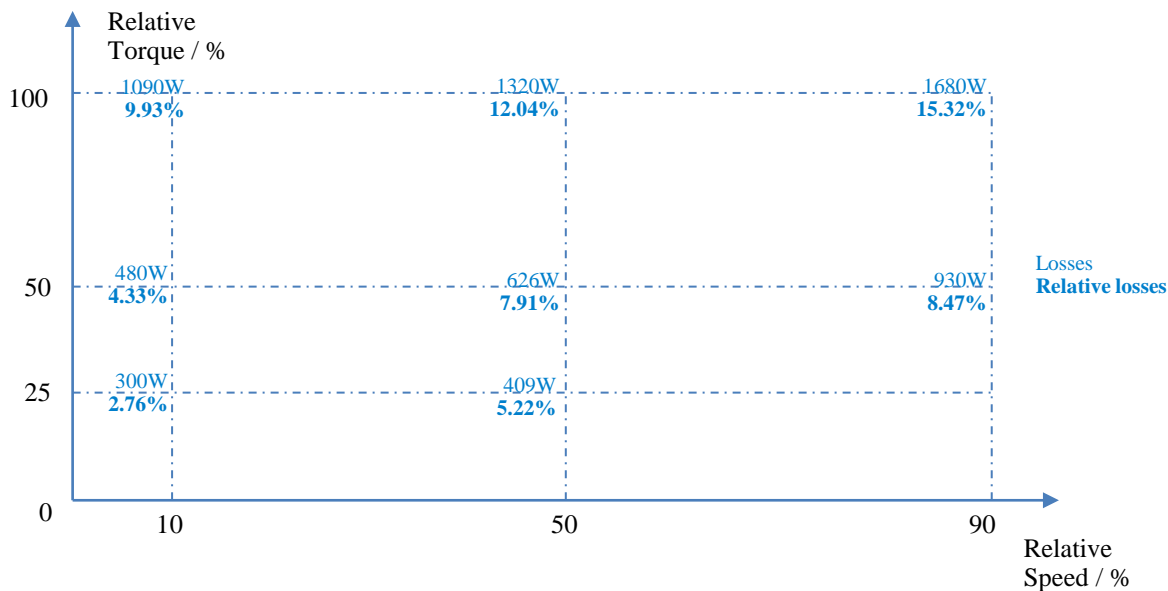


Efficiency data for the Drive

Standby losses: 22W



Efficiency data for the Drive + motor (standard IE2 reference motor)



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Efficiency data for the Drive

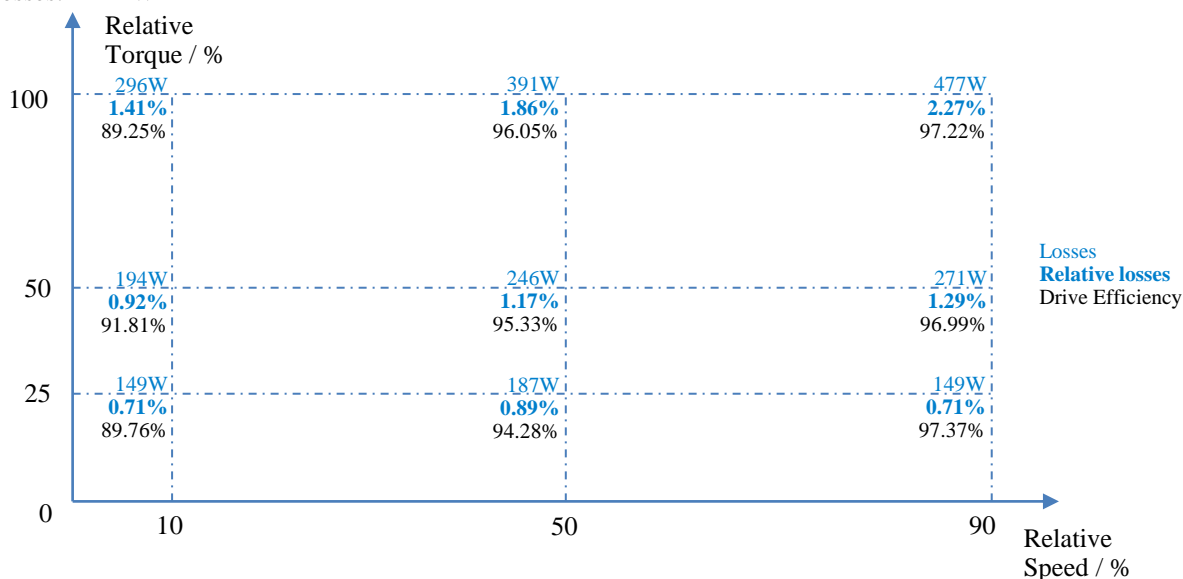
Series :GD270-015-4(-L1/-C2) (-EU)
 Nominal voltage : AC 3PH 380V
 Nominal power :15kW

Nominal current :32A
 Nominal apparent power :21kVA
 Nominal frequency :50Hz

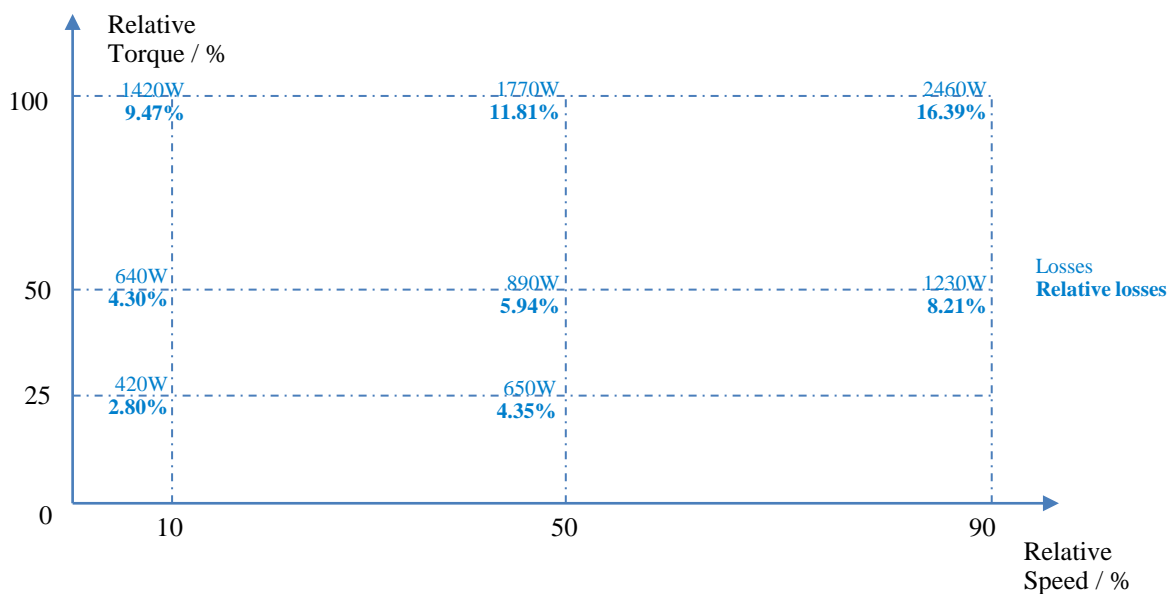


Efficiency data for the Drive

Standby losses: 22W



Efficiency data for the Drive + motor (standard IE2 reference motor)



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Efficiency data for the Drive

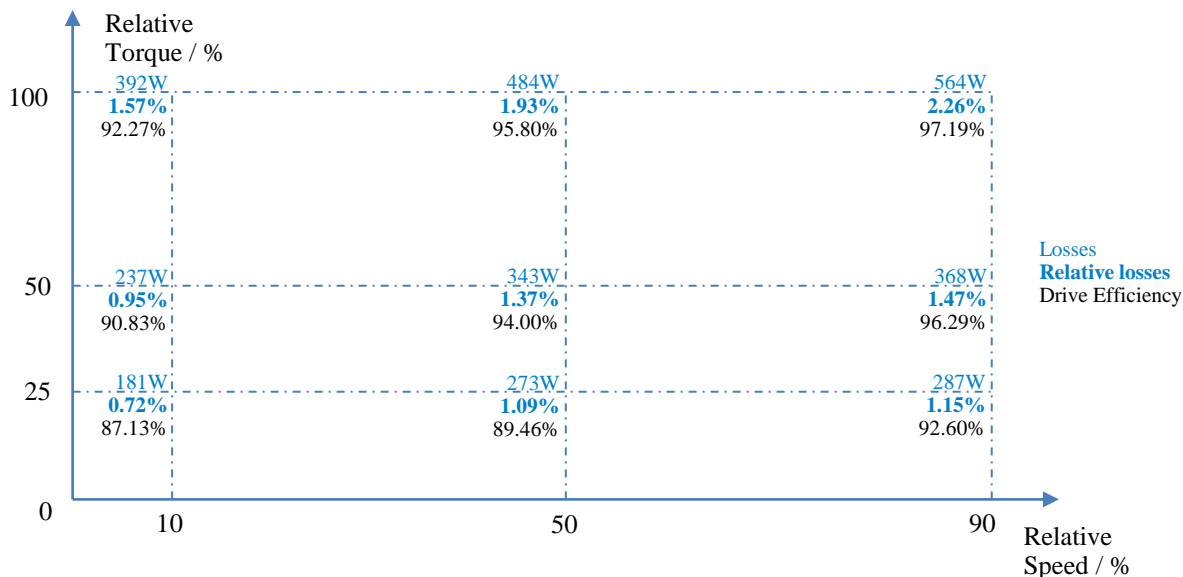
Series :GD270-018-4 (-L1/-C2) (-EU)
 Nominal voltage : AC 3PH 380V
 Nominal power :18.5kW

Nominal current :38A
 Nominal apparent power :24kVA
 Nominal frequency :50Hz

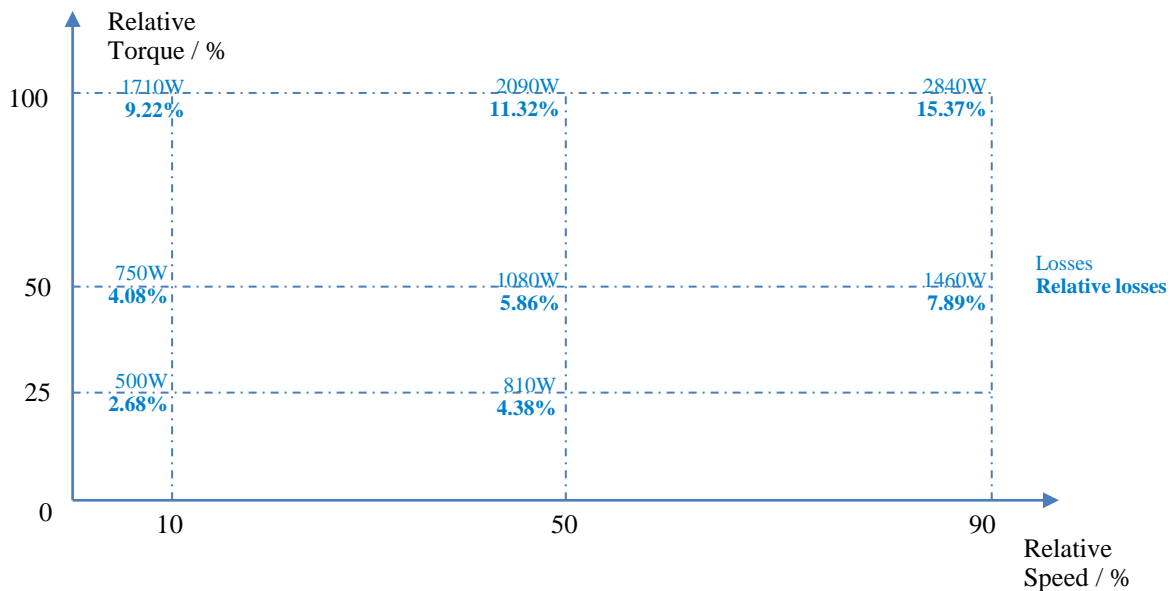


Efficiency data for the Drive

Standby losses: 24W



Efficiency data for the Drive + motor (standard IE2 reference motor)



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Drive efficiency according to IEC/EN 61800-9-2 (supersedes EN 50598-2)



Efficiency data for the Drive

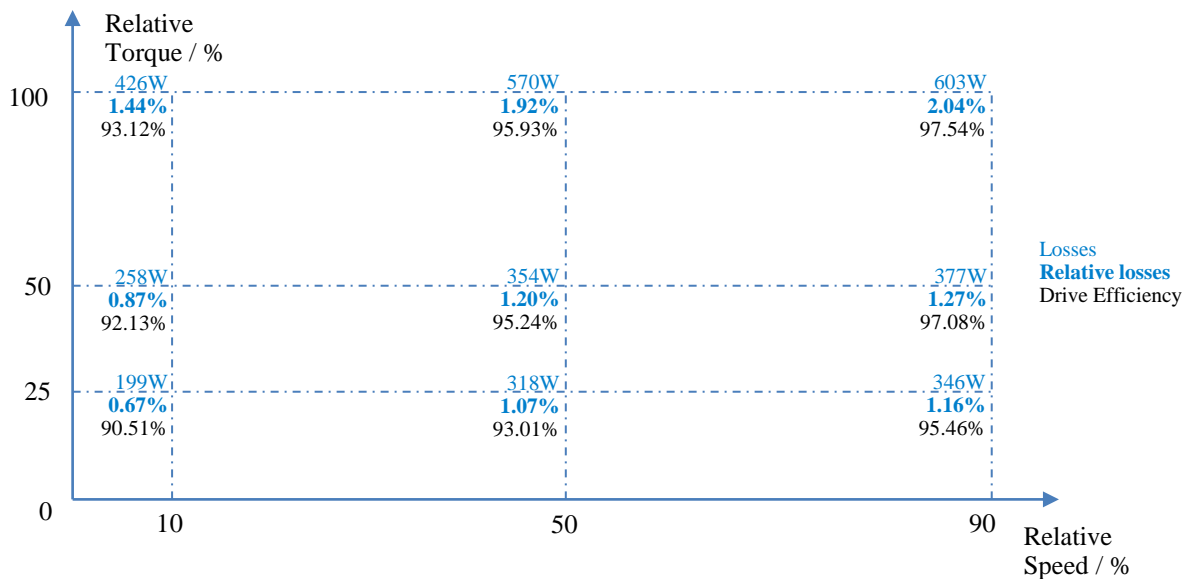
Series :GD270-022-4 (-L1/-C2) (-EU)
 Nominal voltage : AC 3PH 380V
 Nominal power 22kW

Nominal current :45A
 Nominal apparent power :30kVA
 Nominal frequency :50Hz

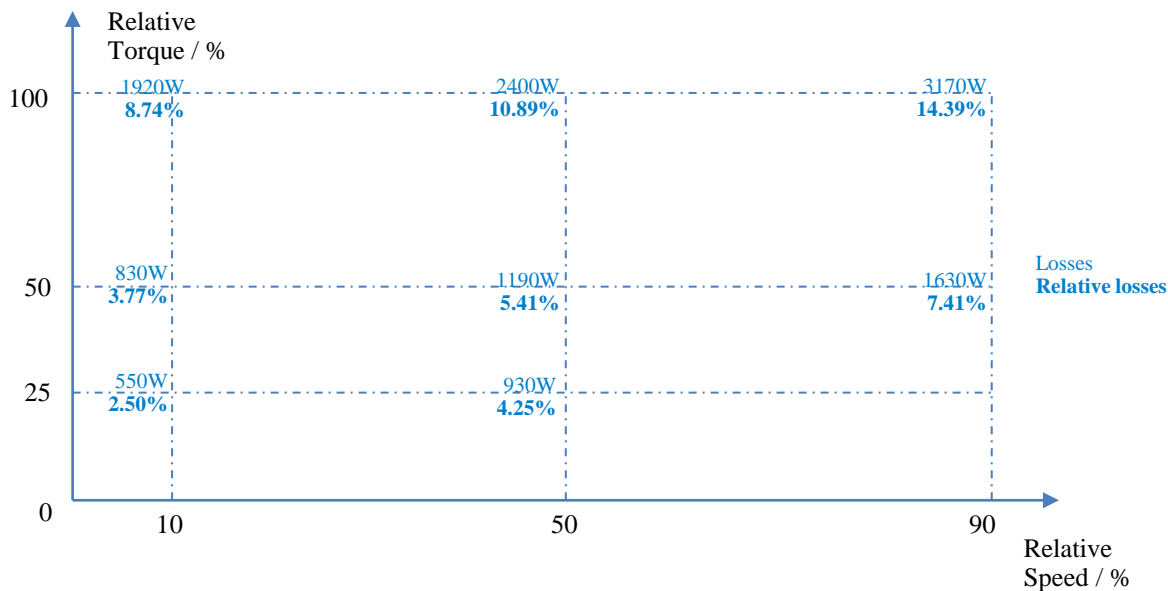


Efficiency data for the Drive

Standby losses: 24W



Efficiency data for the Drive + motor (standard IE2 reference motor)



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Drive efficiency according to IEC/EN 61800-9-2 (supersedes EN 50598-2)



Efficiency data for the Drive

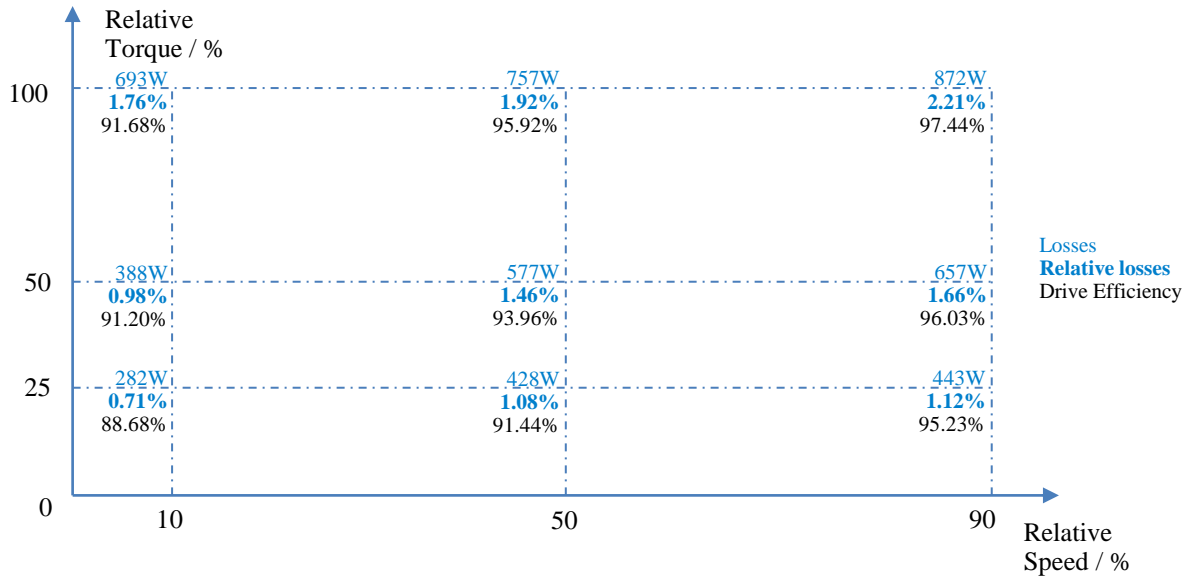
Series :GD270-030-4 (-L1)(-C3) (-EU)
Nominal voltage : AC 3PH 380V
Nominal power 30kW

Nominal current :60A
Nominal apparent power :39.5kVA
Nominal frequency :50Hz

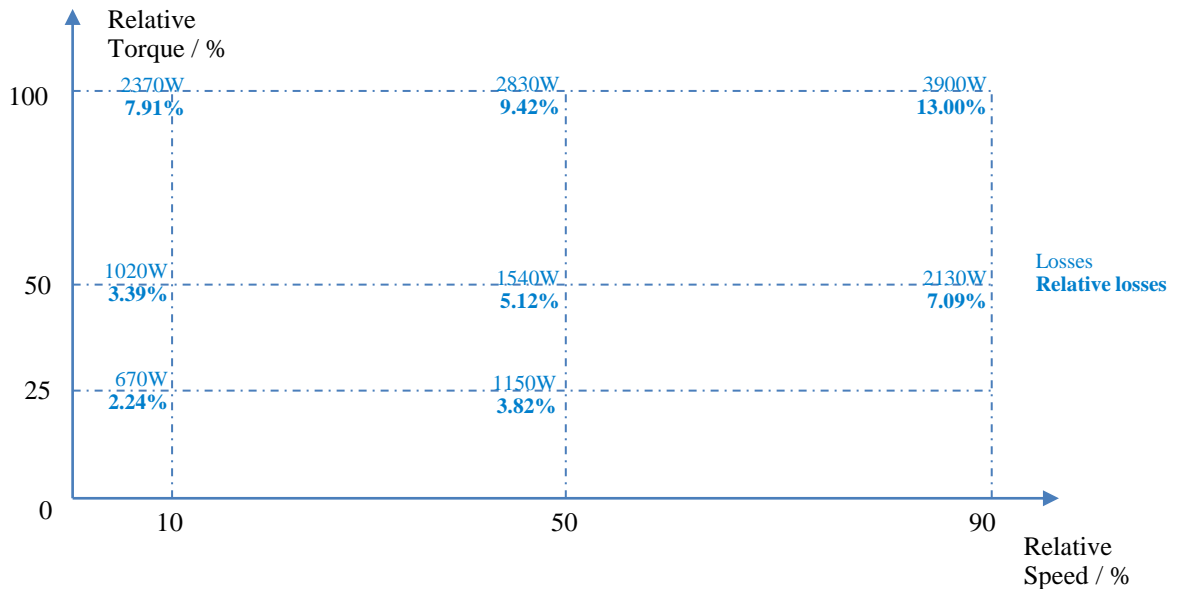


Efficiency data for the Drive

Standby losses: 26W



Efficiency data for the Drive + motor (standard IE2 reference motor)



Energy Efficiency Certificate

Drive efficiency according to IEC/EN 61800-9-2 (supersedes EN 50598-2)



Efficiency data for the Drive

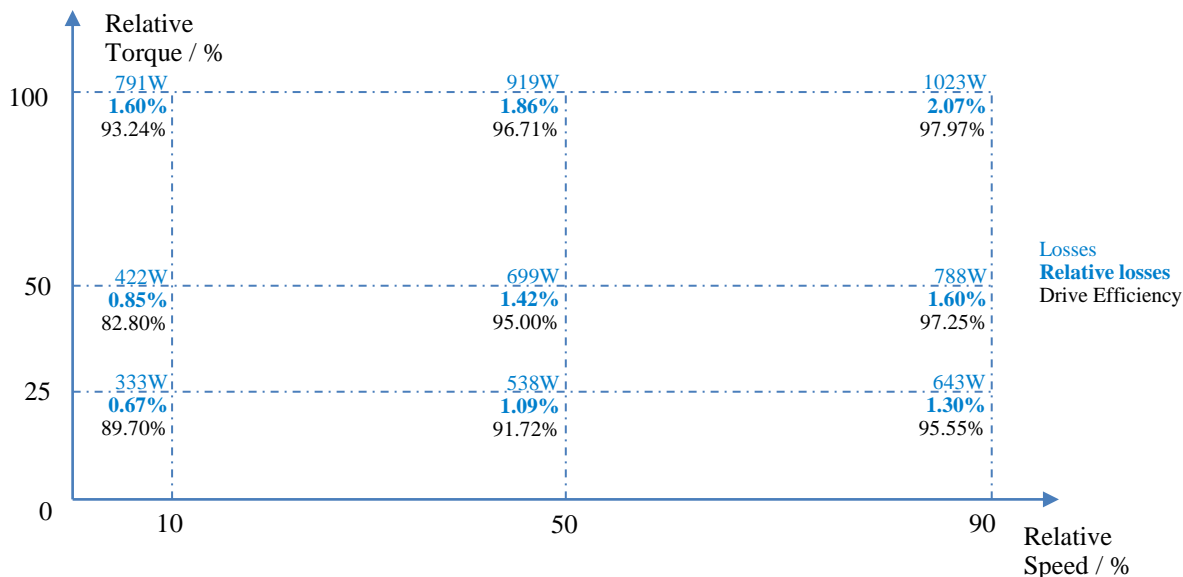
Series :GD270-037-4 (-L1)(-C3) (-EU)
 Nominal voltage : AC 3PH 380V
 Nominal power :37kW

Nominal current :75A
 Nominal apparent power :49kVA
 Nominal frequency :50Hz

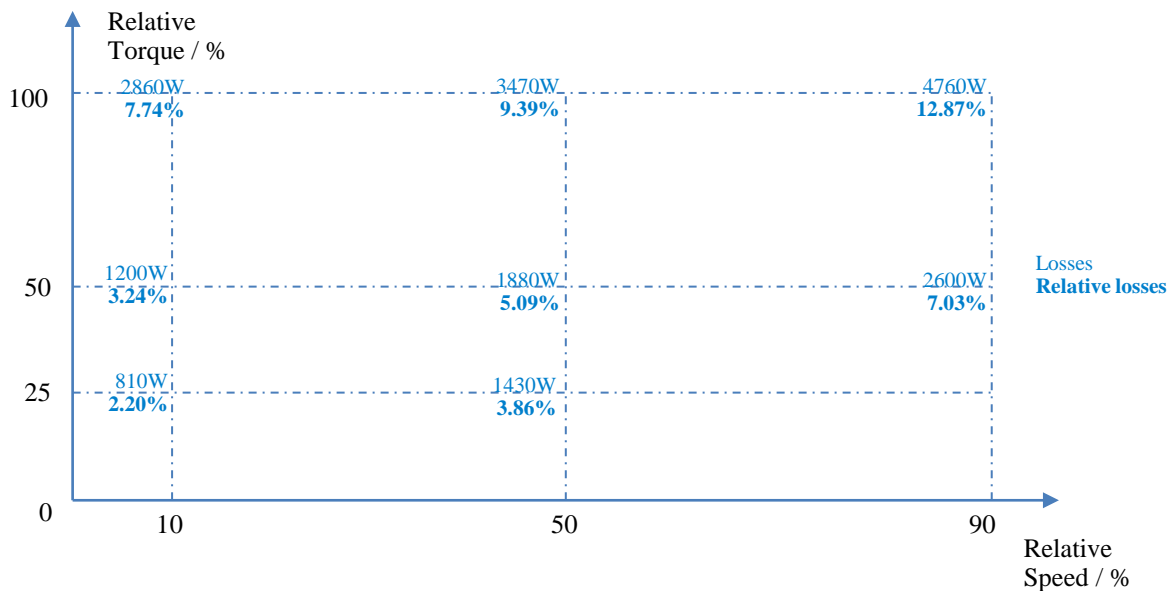


Efficiency data for the Drive

Standby losses: 26W



Efficiency data for the Drive + motor (standard IE2 reference motor)



Energy Efficiency Certificate

Drive efficiency according to IEC/EN 61800-9-2 (supersedes EN 50598-2)



Efficiency data for the Drive

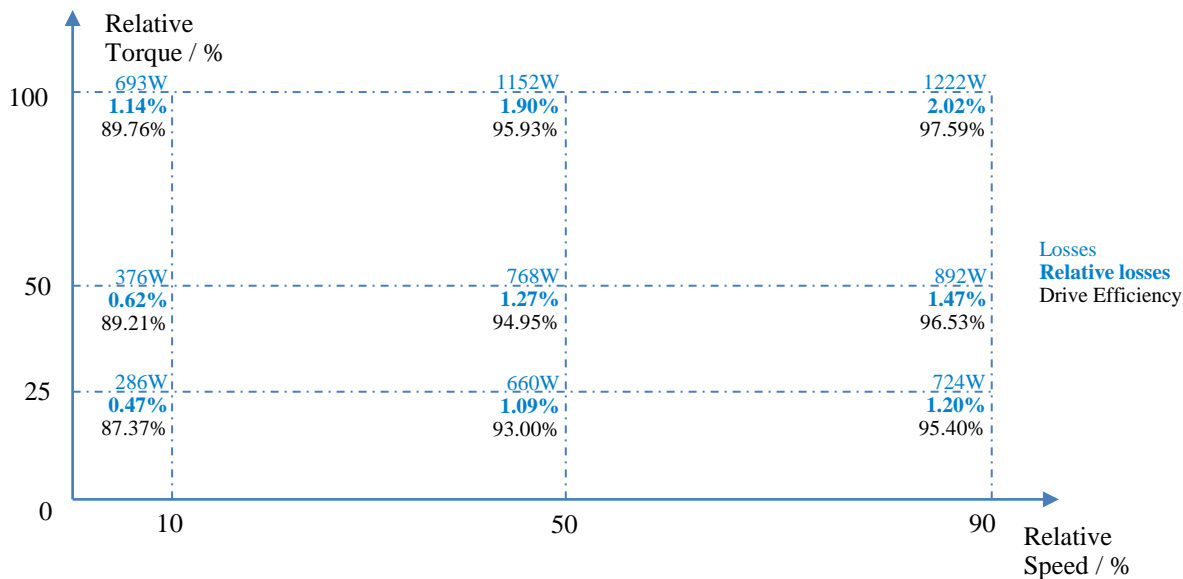
Series :GD270-045-4 (-L1)(-C3) (-EU)
 Nominal voltage : AC 3PH 380V
 Nominal power :45kW

Nominal current :92A
 Nominal apparent power :60kVA
 Nominal frequency :50Hz

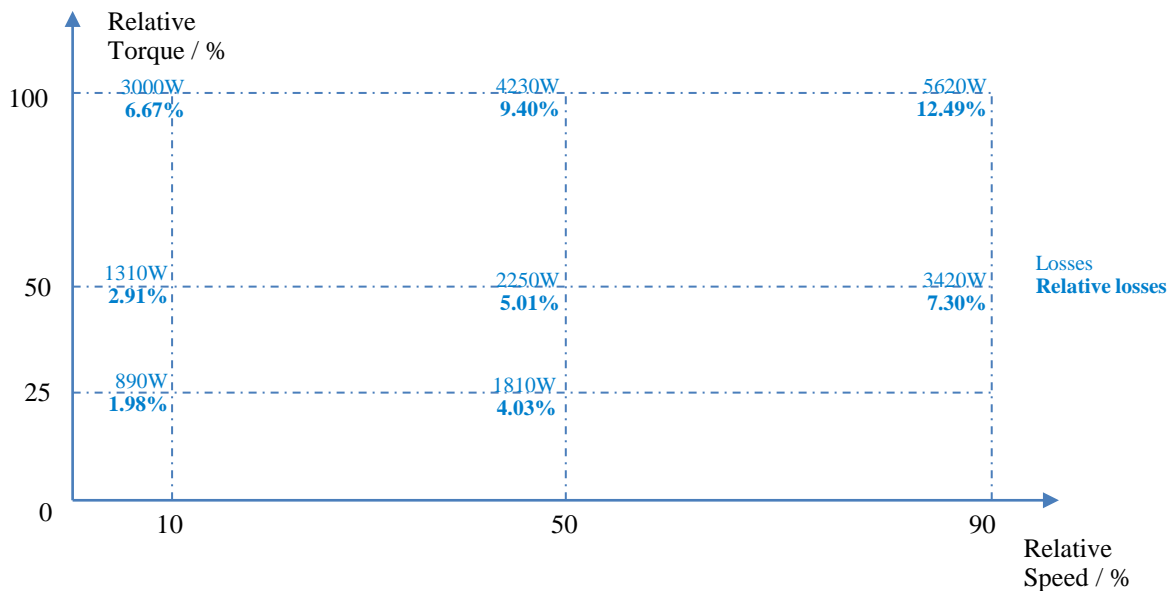


Efficiency data for the Drive

Standby losses: 28W



Efficiency data for the Drive + motor (standard IE2 reference motor)



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Efficiency data for the Drive

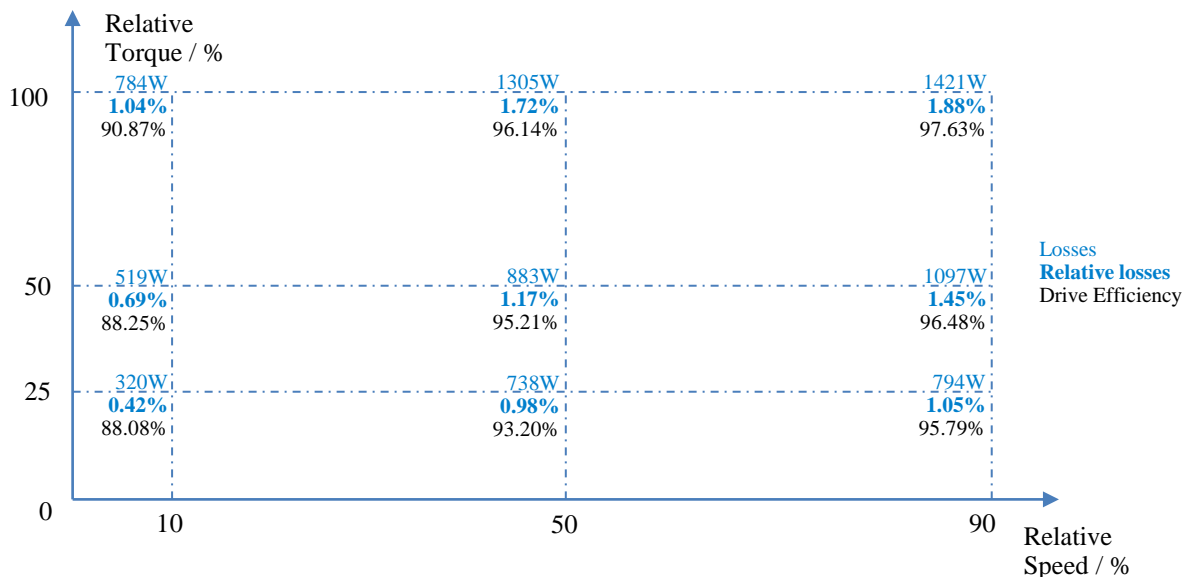
Series :GD270-055-4 (-L1)(-C3) (-EU)
 Nominal voltage : AC 3PH 380V
 Nominal power :55kW

Nominal current :115A
 Nominal apparent power :75.7kVA
 Nominal frequency :50Hz

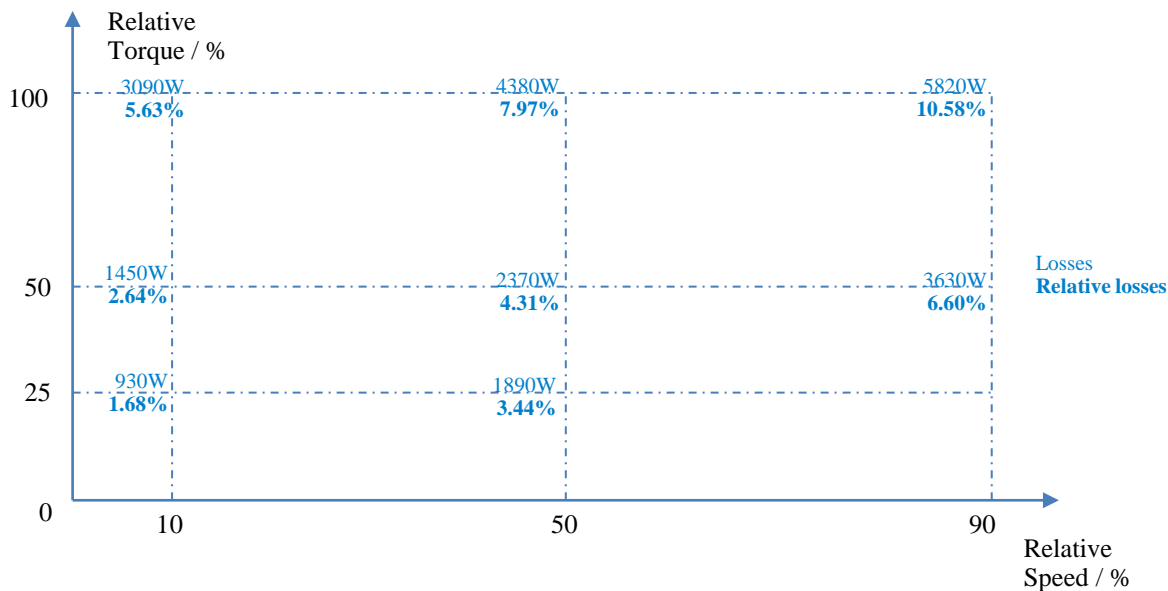


Efficiency data for the Drive

Standby losses: 32W



Efficiency data for the Drive + motor (standard IE2 reference motor)



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Efficiency data for the Drive

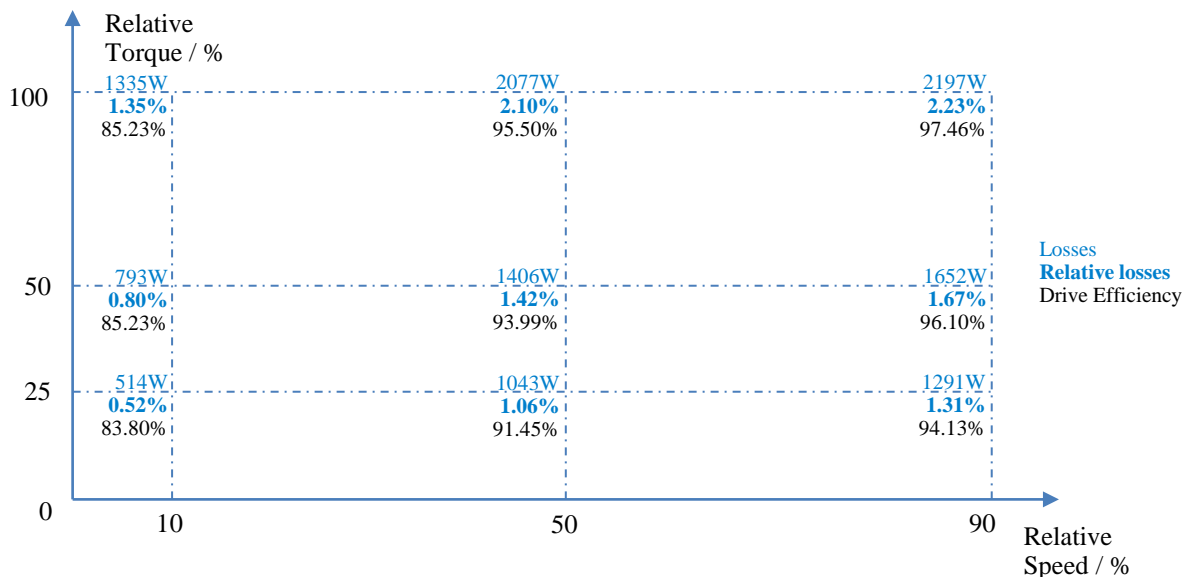
Series :GD270-075-4 (-L1)(-C3) (-EU)
 Nominal voltage : AC 3PH 380V
 Nominal power :75kW

Nominal current :150A
 Nominal apparent power :98.7kVA
 Nominal frequency :50Hz

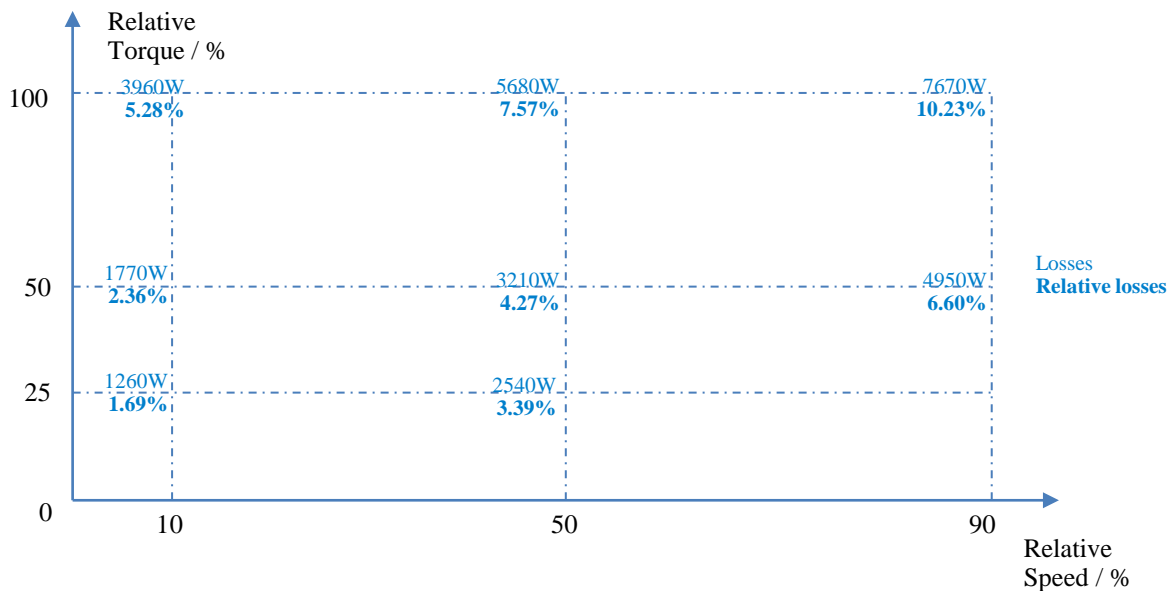


Efficiency data for the Drive

Standby losses: 32W



Efficiency data for the Drive + motor (standard IE2 reference motor)



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Efficiency data for the Drive

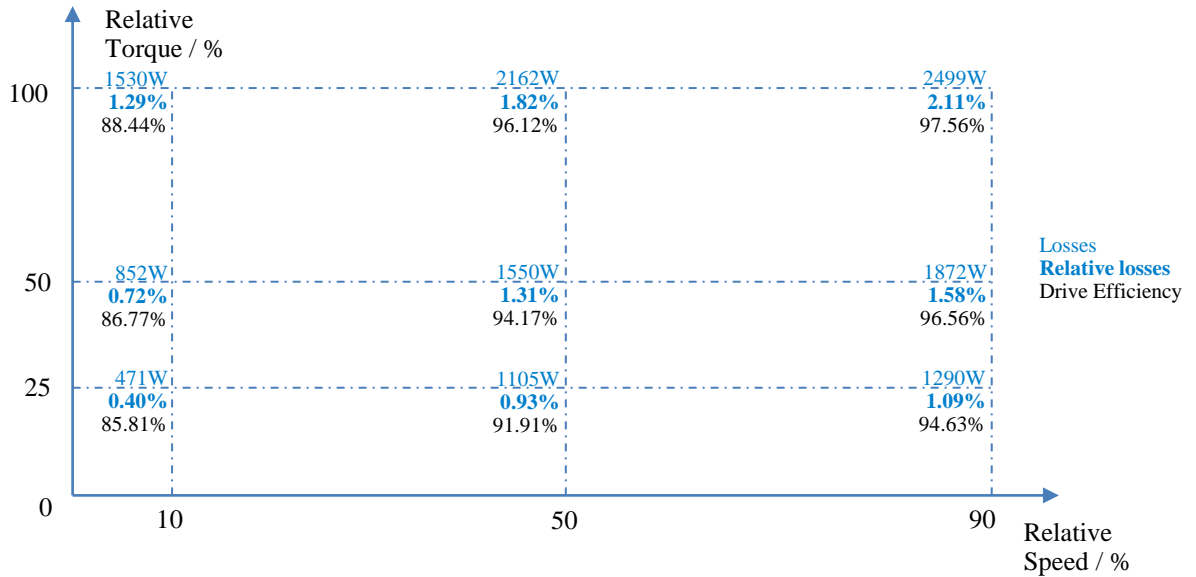
Series :GD270-090-4 (-L1)(-C3) (-EU)
 Nominal voltage : AC 3PH 380V
 Nominal power :90kW

Nominal current :180A
 Nominal apparent power :120kVA
 Nominal frequency :50Hz

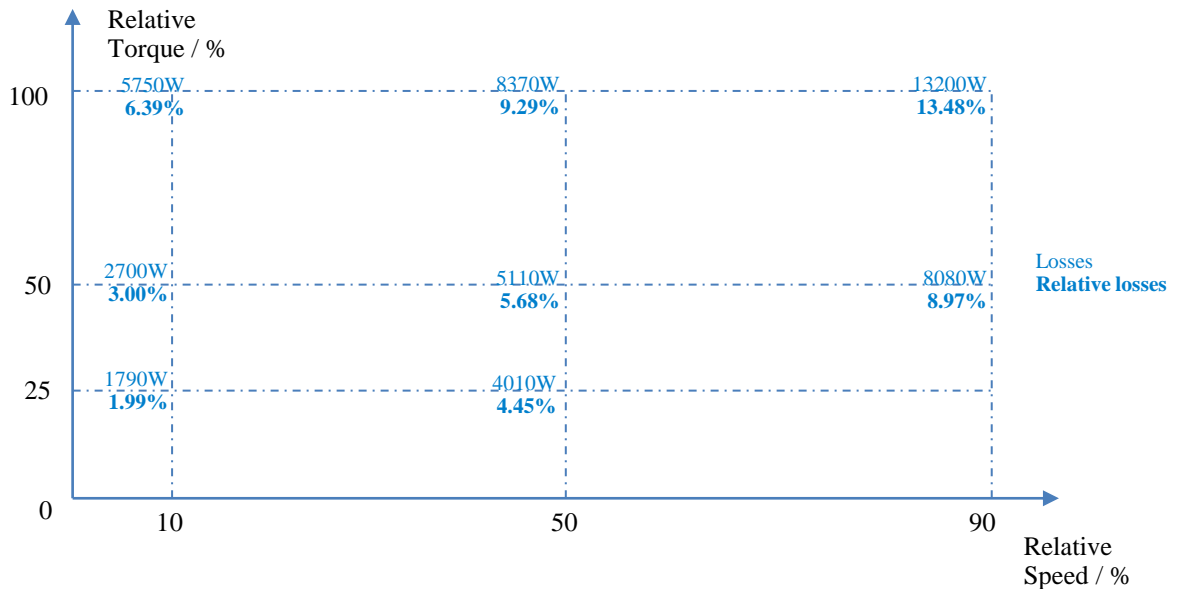


Efficiency data for the Drive

Standby losses: 32W



Efficiency data for the Drive + motor (standard IE2 reference motor)



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Efficiency data for the Drive

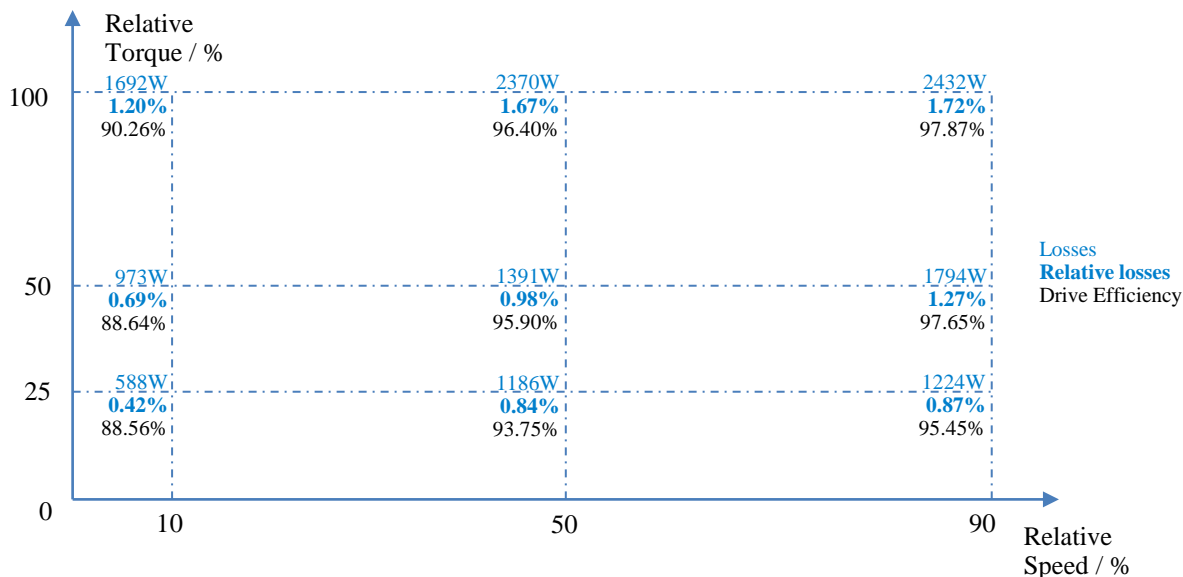
Series :GD270-110-4 (-L1)(-C3) (-EU)
 Nominal voltage : AC 3PH 380V
 Nominal power :110kW

Nominal current :215A
 Nominal apparent power :142kVA
 Nominal frequency :50Hz

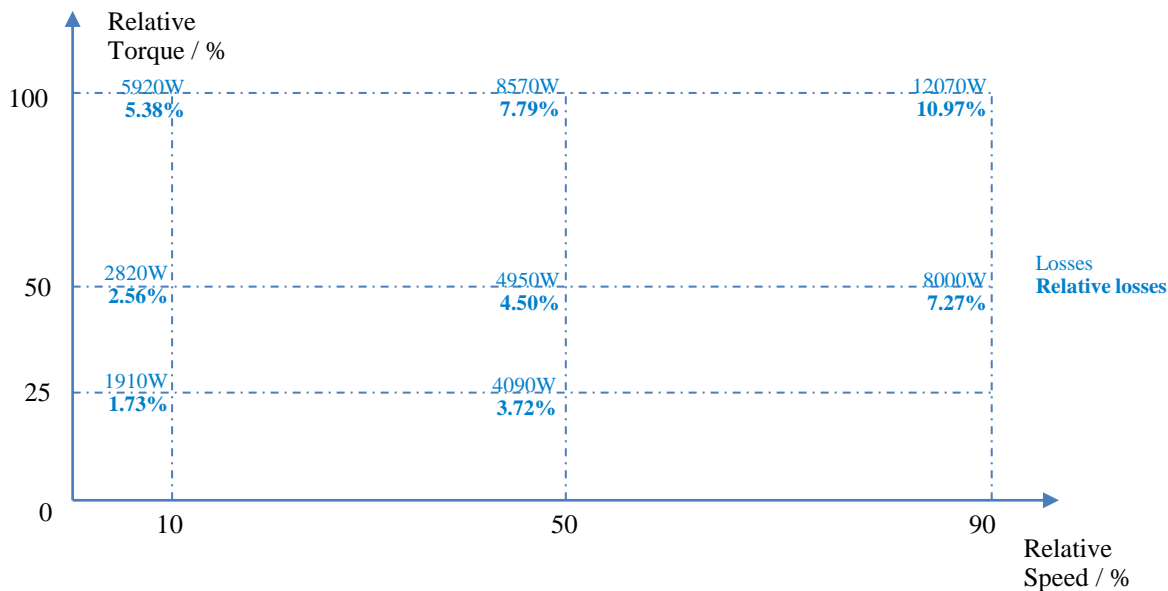


Efficiency data for the Drive

Standby losses: 35W



Efficiency data for the Drive + motor (standard IE2 reference motor)



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Efficiency data for the Drive

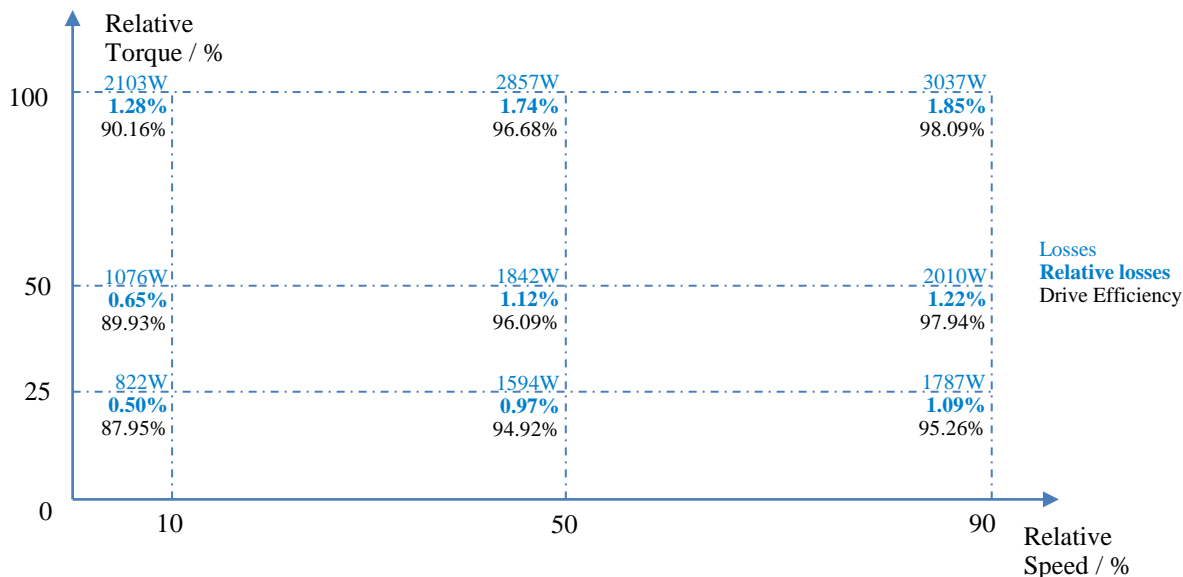
Series :GD270-132-4 (-L1)(-C3) (-EU)
 Nominal voltage : AC 3PH 380V
 Nominal power :132kW

Nominal current :250A
 Nominal apparent power :172kVA
 Nominal frequency :50Hz

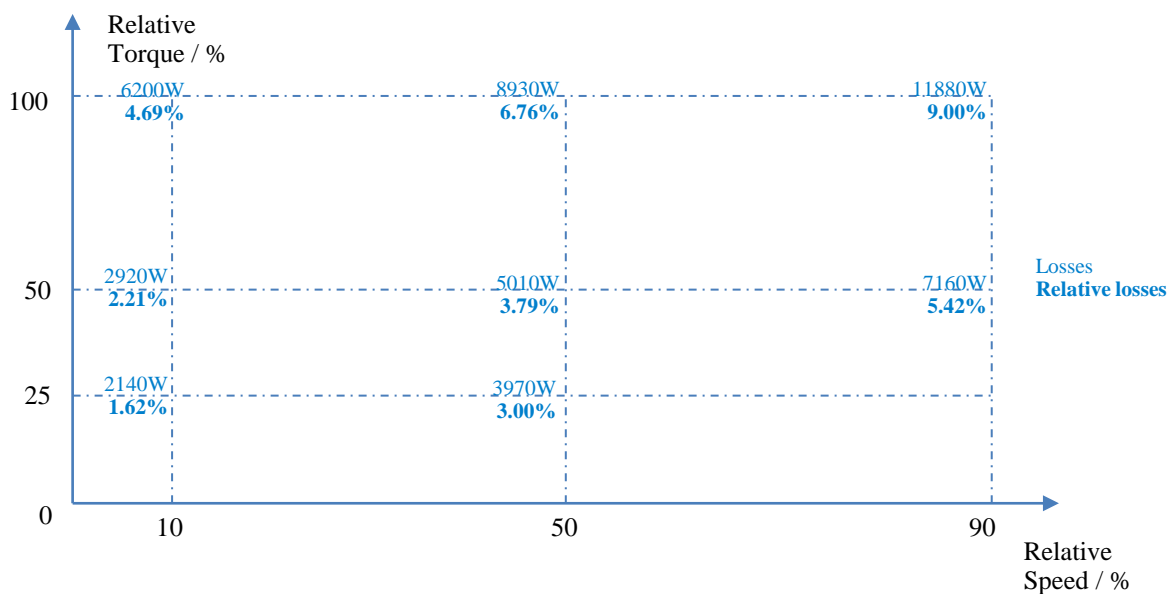


Efficiency data for the Drive

Standby losses: 35W



Efficiency data for the Drive + motor (standard IE2 reference motor)



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Efficiency data for the Drive

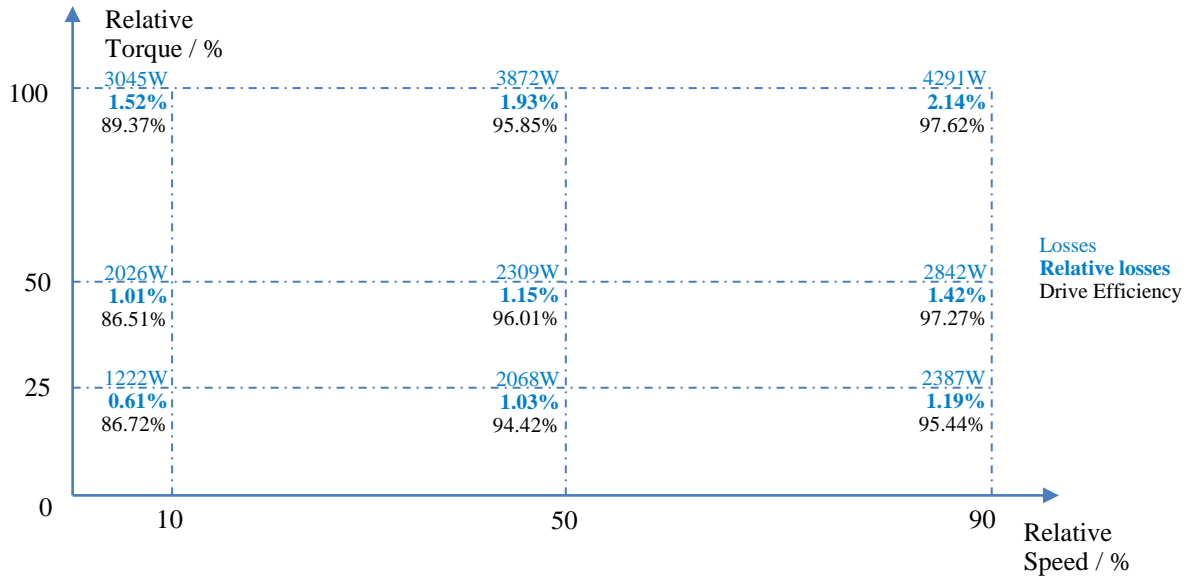
Series : GD270-160-4 (-L1)(-C3)(-EU)
 Nominal voltage : AC 3PH 380V
 Nominal power :160kW

Nominal current :305A
 Nominal apparent power :200kVA
 Nominal frequency :50Hz

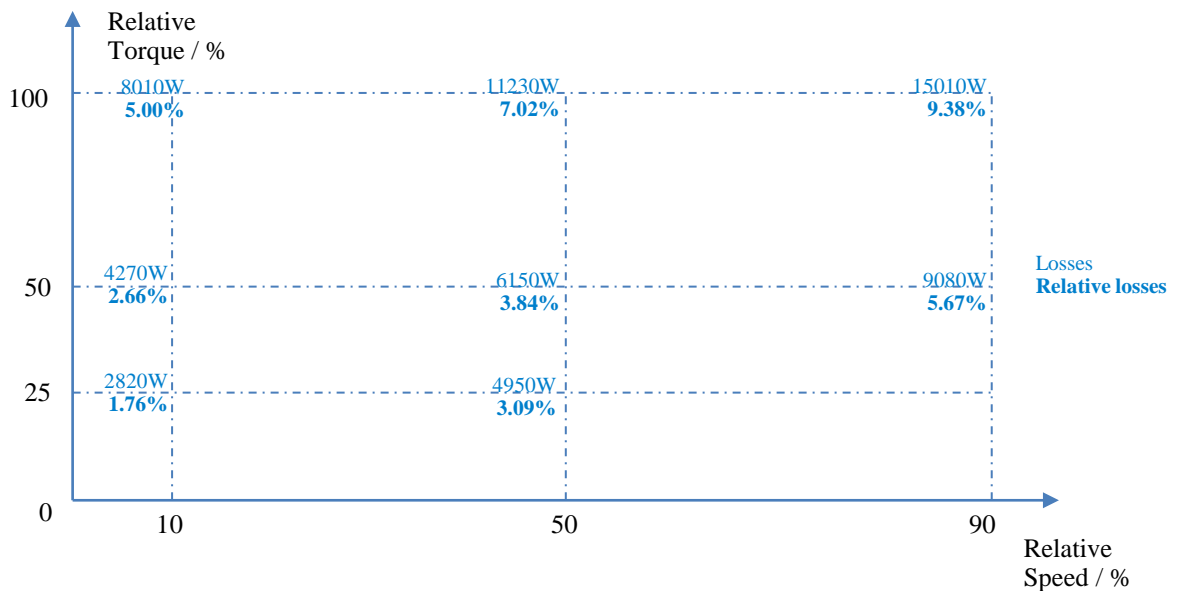


Efficiency data for the Drive

Standby losses: 38W



Efficiency data for the Drive + motor (standard IE2 reference motor)



Energy Efficiency Certificate

Drive efficiency according to IEC/EN 61800-9-2 (supersedes EN 50598-2)



Efficiency data for the Drive

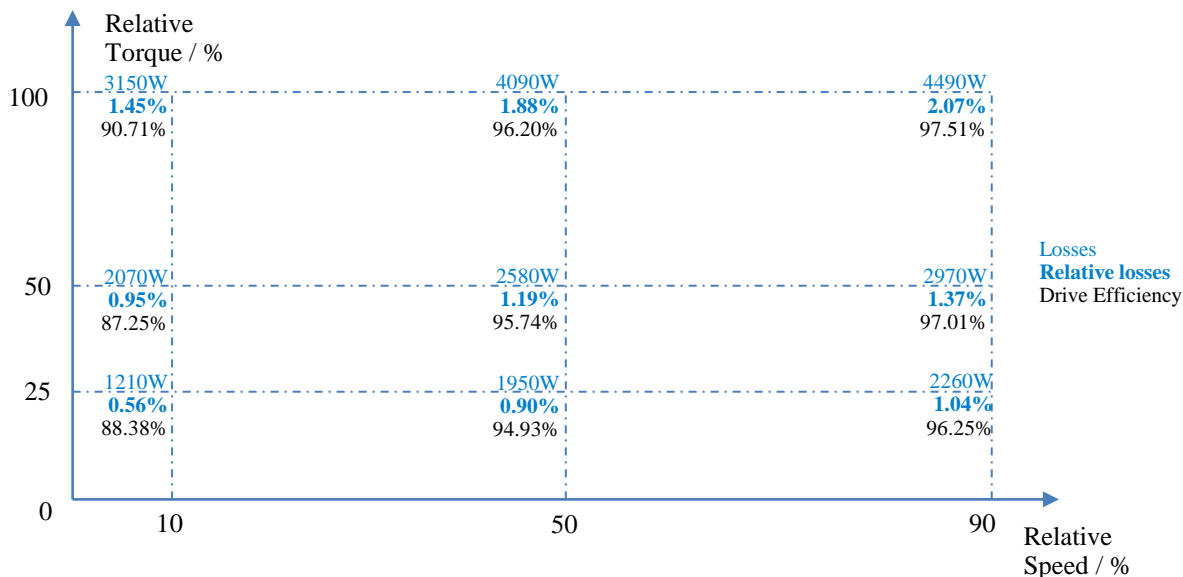
Series : GD270-185-4 (-L1)(-C3)(-EU)
 Nominal voltage : AC 3PH 380V
 Nominal power :185kW

Nominal current :330A
 Nominal apparent power :217kVA
 Nominal frequency :50Hz

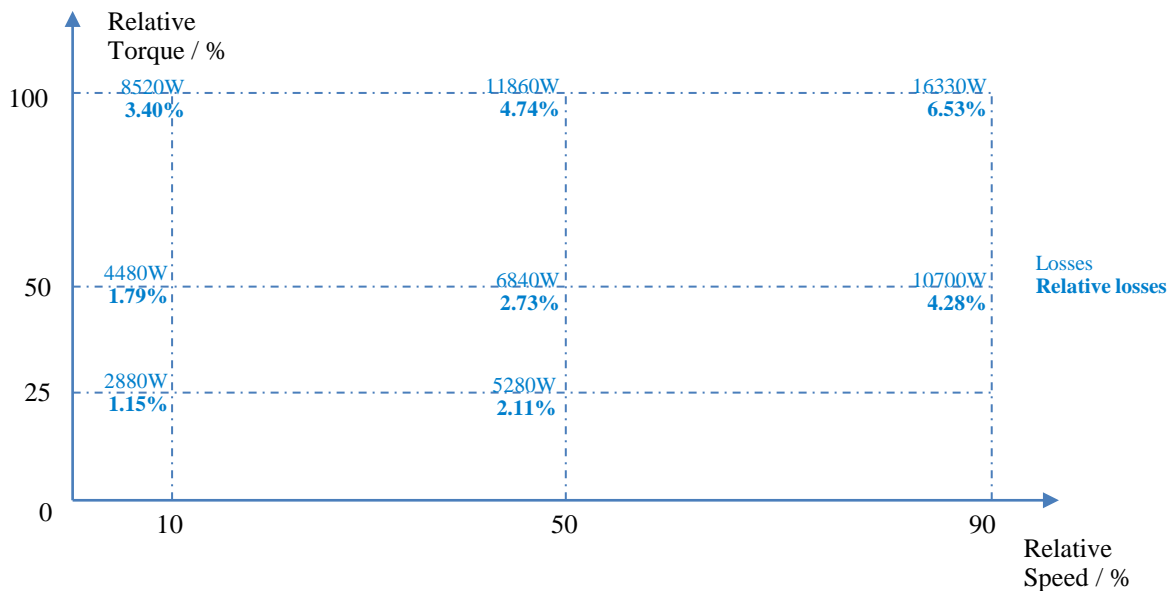


Efficiency data for the Drive

Standby losses: 38W



Efficiency data for the Drive + motor (standard IE2 reference motor)



Energy Efficiency Certificate

Drive efficiency according to IEC/EN 61800-9-2 (supersedes EN 50598-2)



Efficiency data for the Drive

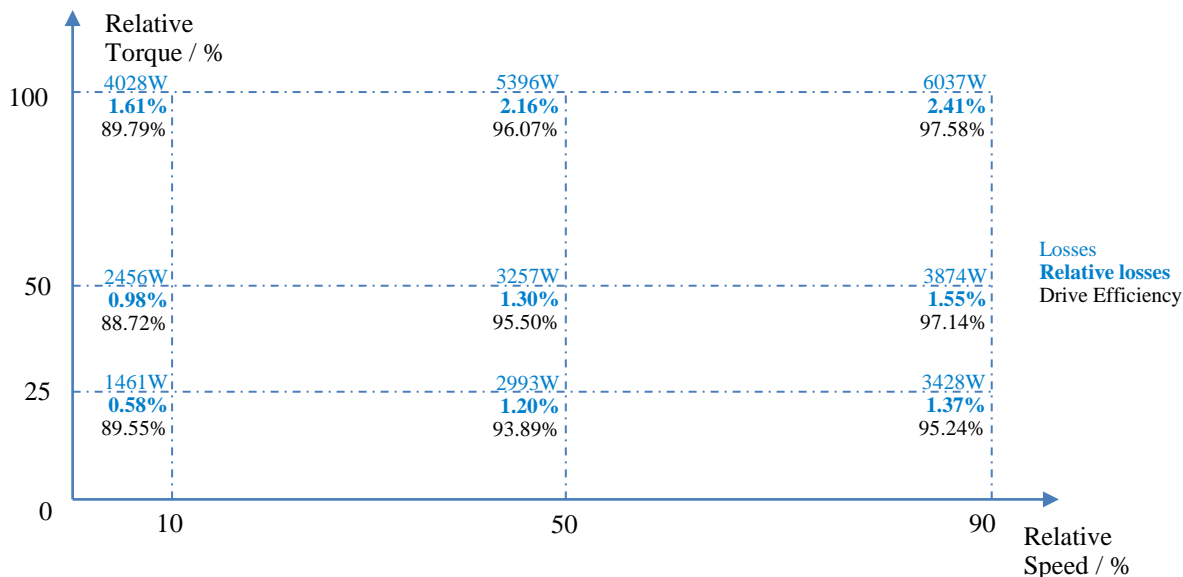
Series : GD270-200-4 (-L1)(-C3)(-EU)
 Nominal voltage : AC 3PH 380V
 Nominal power : 200kW

Nominal current : 380A
 Nominal apparent power : 250kVA
 Nominal frequency : 50Hz

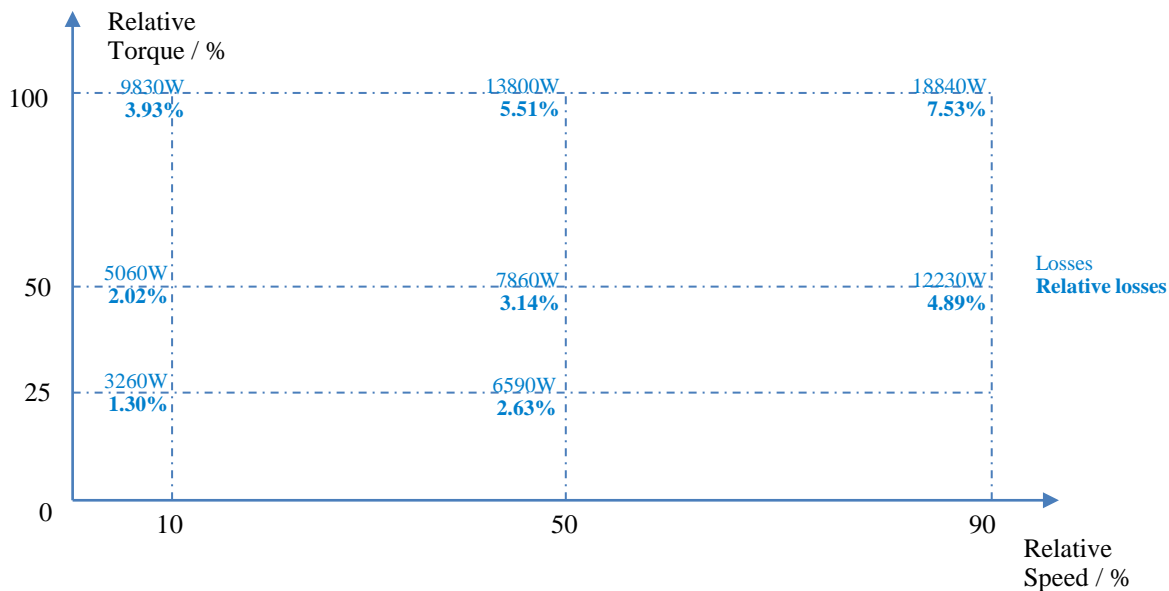


Efficiency data for the Drive

Standby losses: 38W



Efficiency data for the Drive + motor (standard IE2 reference motor)



Energy Efficiency Certificate

Drive efficiency according to IEC/EN 61800-9-2 (supersedes EN 50598-2)



Efficiency data for the Drive

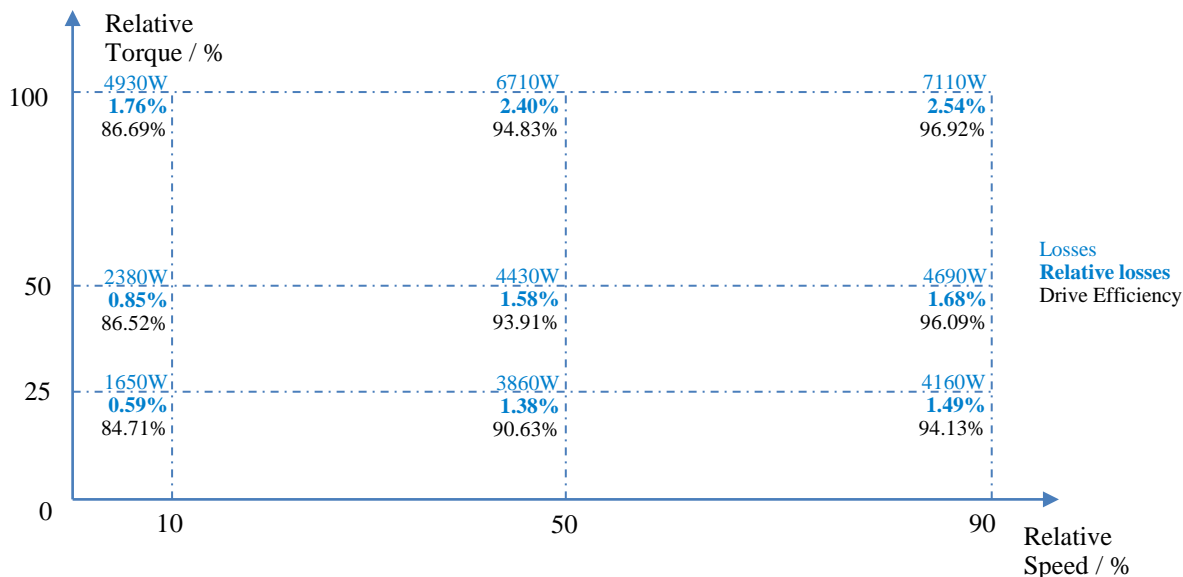
Series :GD270-220-4(-L1/-L3)(-C3)(-EU)
 Nominal voltage : AC 3PH 380V
 Nominal power :220kW

Nominal current :425A
 Nominal apparent power :280kVA
 Nominal frequency :50Hz

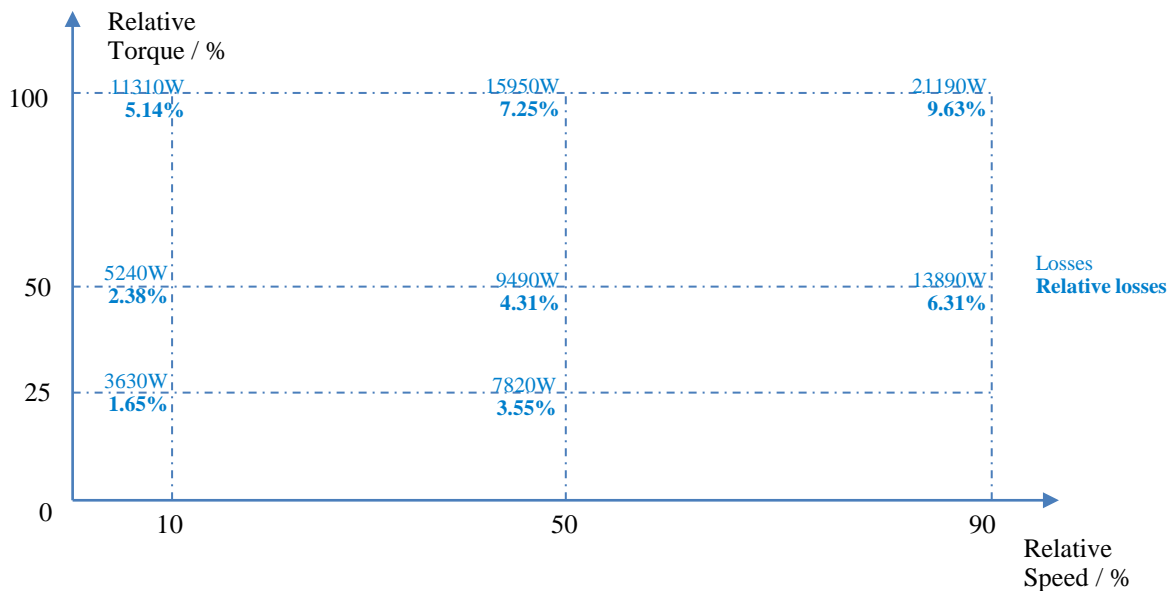


Efficiency data for the Drive

Standby losses: 42W



Efficiency data for the Drive + motor (standard IE2 reference motor)



Energy Efficiency Certificate

Drive efficiency according to IEC/EN 61800-9-2 (supersedes EN 50598-2)



Efficiency data for the Drive

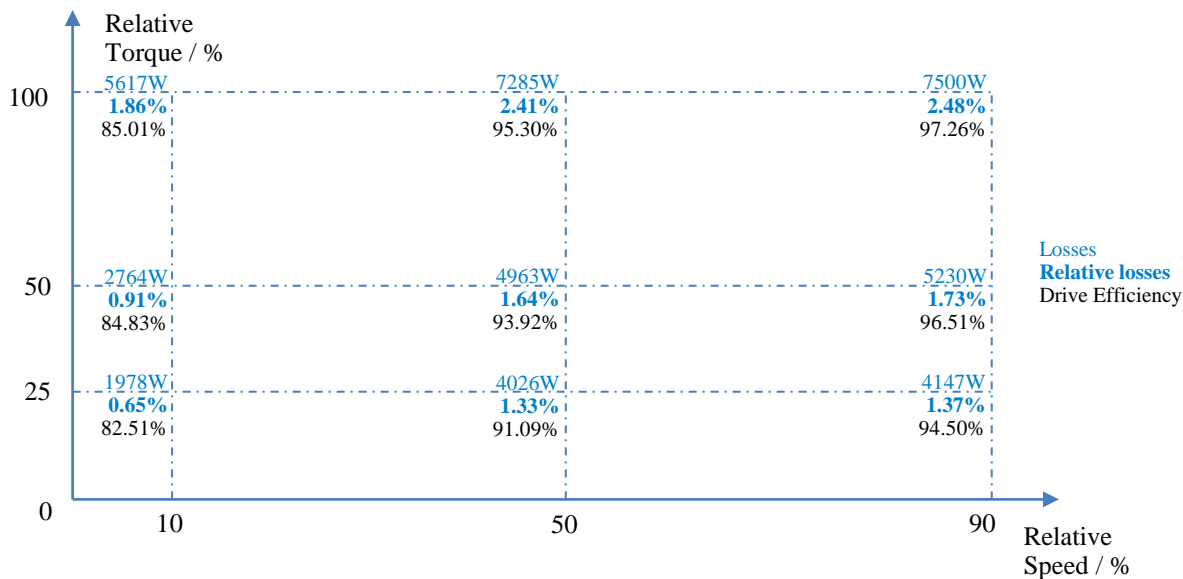
Series :GD270-250-4(-L1/-L3)(-C3)(-EU)
 Nominal voltage : AC 3PH 380V
 Nominal power :250kW

Nominal current :460A
 Nominal apparent power :302kVA
 Nominal frequency :50Hz

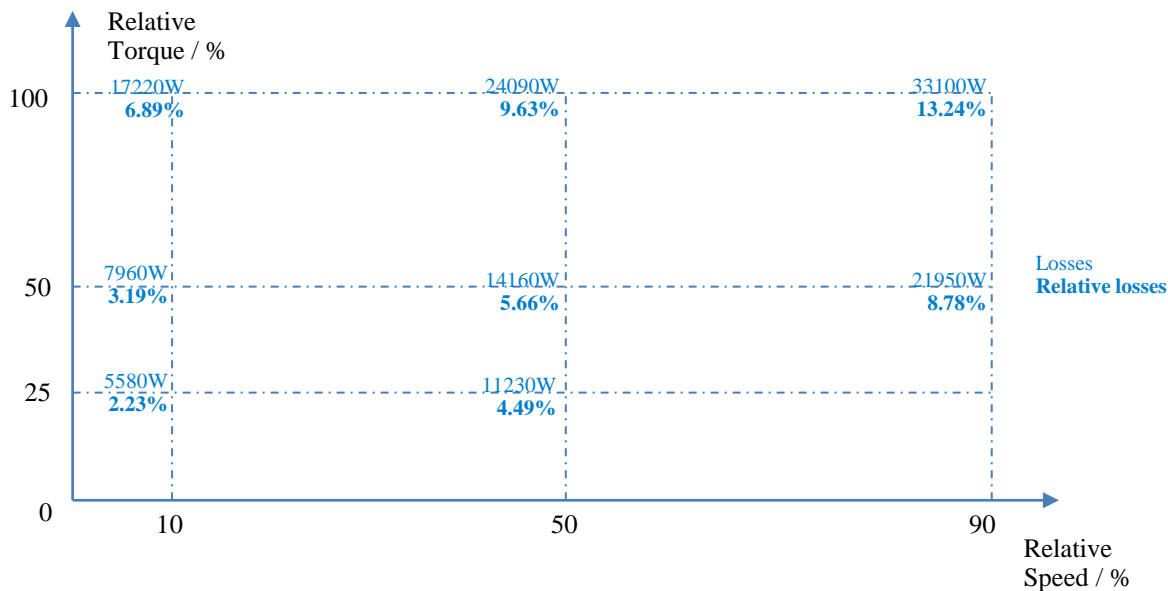


Efficiency data for the Drive

Standby losses: 42W



Efficiency data for the Drive + motor (standard IE2 reference motor)



Energy Efficiency Certificate

Drive efficiency according to IEC/EN 61800-9-2 (supersedes EN 50598-2)



Efficiency data for the Drive

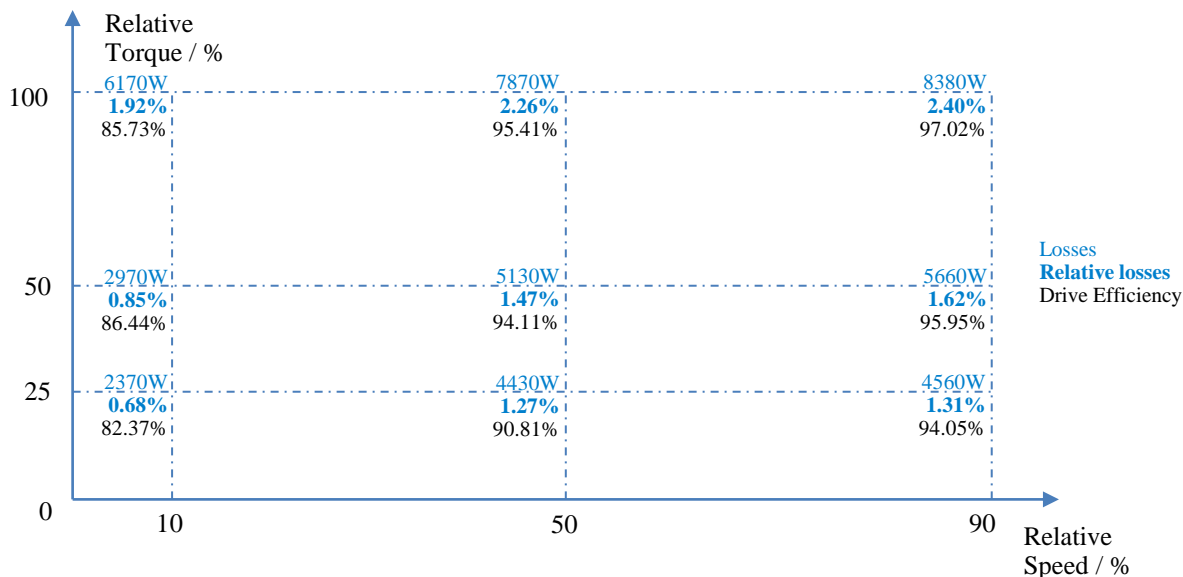
Series :GD270-280-4(-L1/-L3)(-C3)(-EU)
 Nominal voltage : AC 3PH 380V
 Nominal power :280kW

Nominal current :530A
 Nominal apparent power :349kVA
 Nominal frequency :50Hz

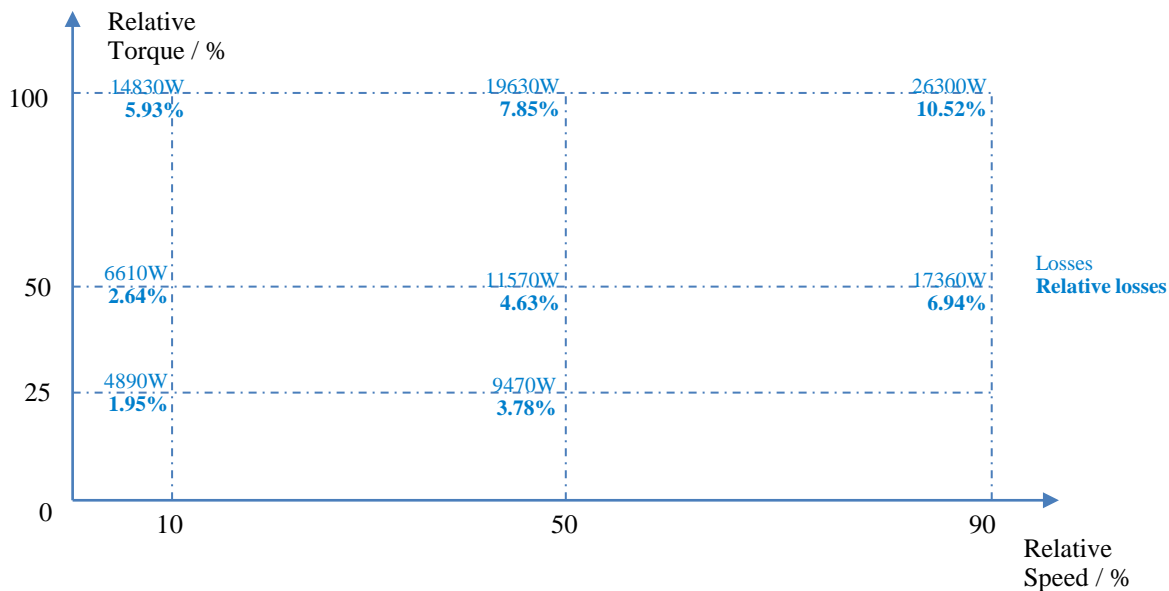


Efficiency data for the Drive

Standby losses: 48W



Efficiency data for the Drive + motor (standard IE2 reference motor)



Energy Efficiency Certificate

Drive efficiency according to IEC/EN 61800-9-2 (supersedes EN 50598-2)



Efficiency data for the Drive

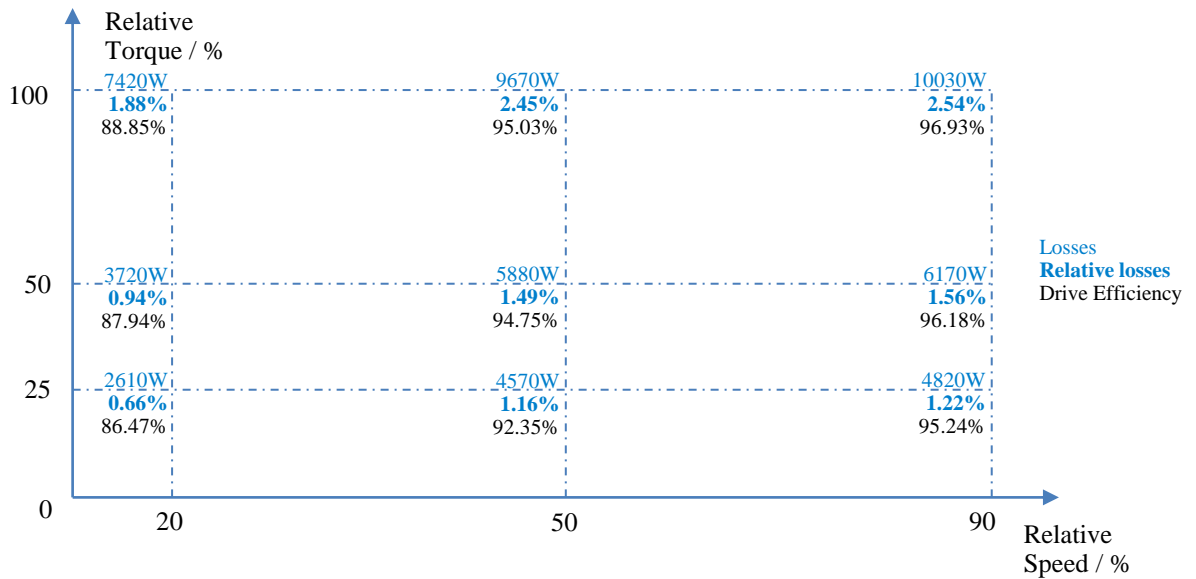
Series :GD270-315-4(-L1/-L3)(-C3)(-EU)
 Nominal voltage : AC 3PH 380V
 Nominal power :315kW

Nominal current :600A
 Nominal apparent power :395kVA
 Nominal frequency :50Hz

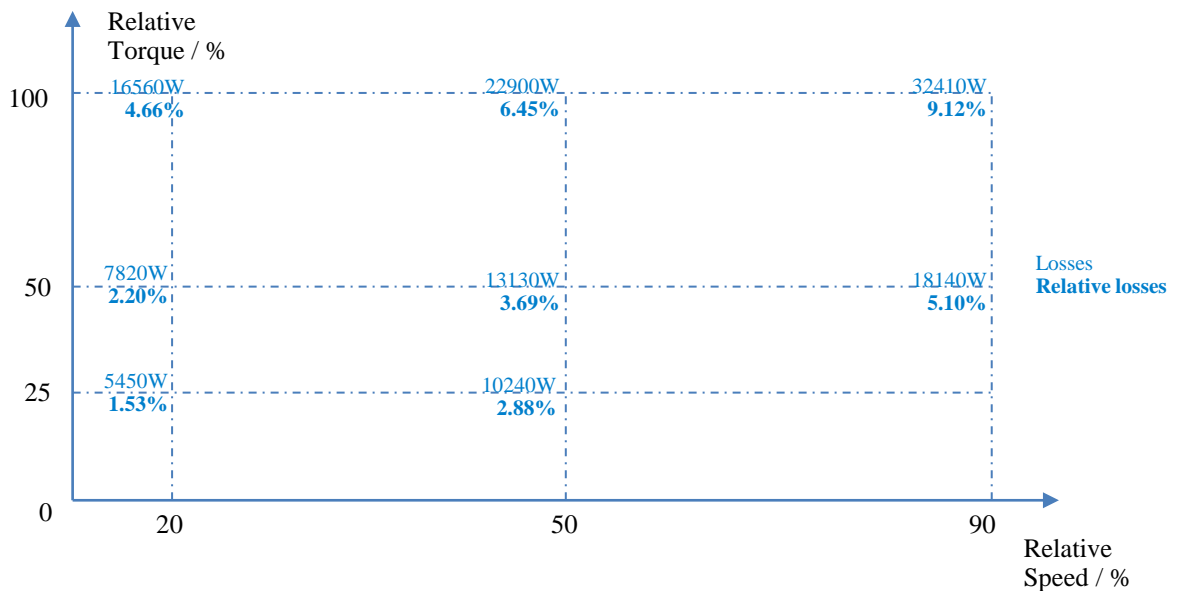


Efficiency data for the Drive

Standby losses: 48W



Efficiency data for the Drive + motor (standard IE2 reference motor)



Energy Efficiency Certificate

Drive efficiency according to IEC/EN 61800-9-2 (supersedes EN 50598-2)



Efficiency data for the Drive

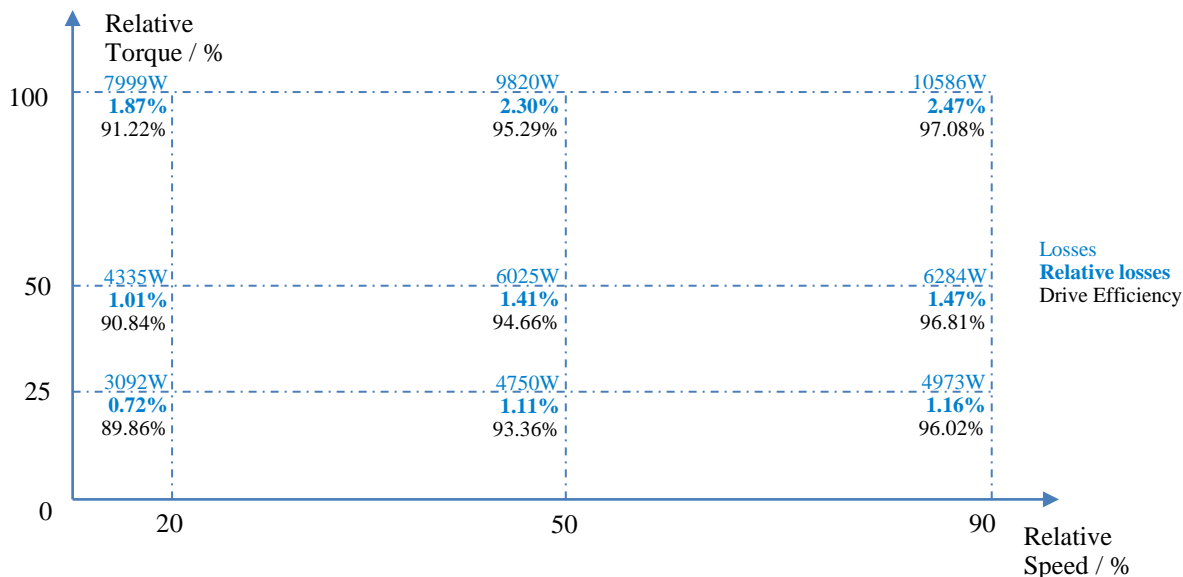
Series :GD270-355-4(-L1/-L3)(-C3)(-EU)
 Nominal voltage : AC 3PH 380V
 Nominal power :355kW

Nominal current :650A
 Nominal apparent power :425kVA
 Nominal frequency :50Hz

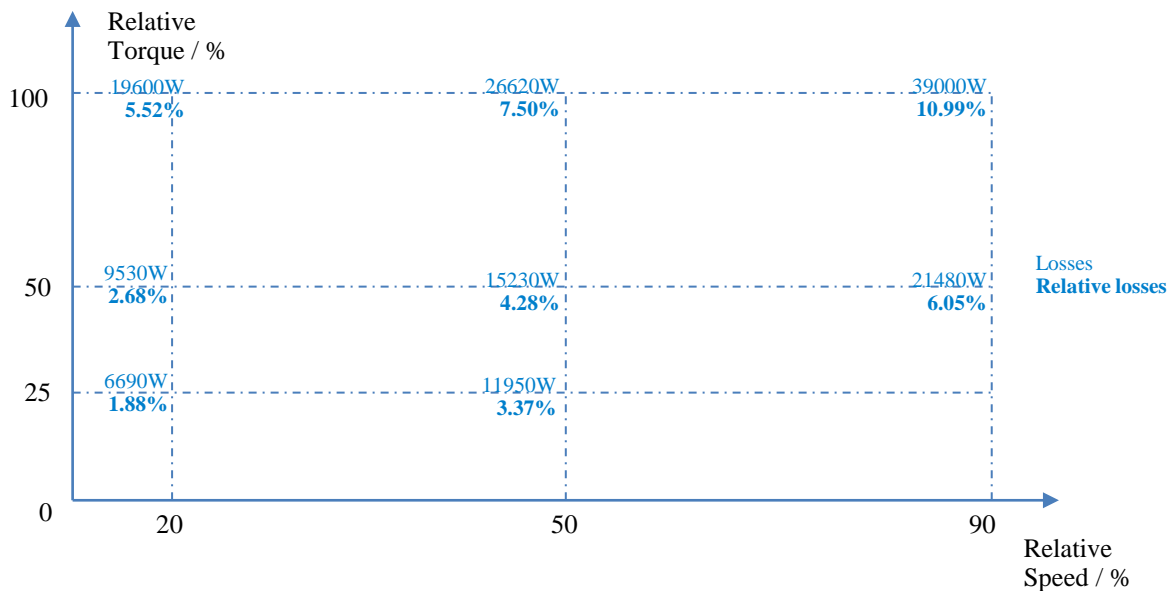


Efficiency data for the Drive

Standby losses: 48W



Efficiency data for the Drive + motor (standard IE2 reference motor)



Energy Efficiency Certificate

Drive efficiency according to IEC/EN 61800-9-2 (supersedes EN 50598-2)



Efficiency data for the Drive

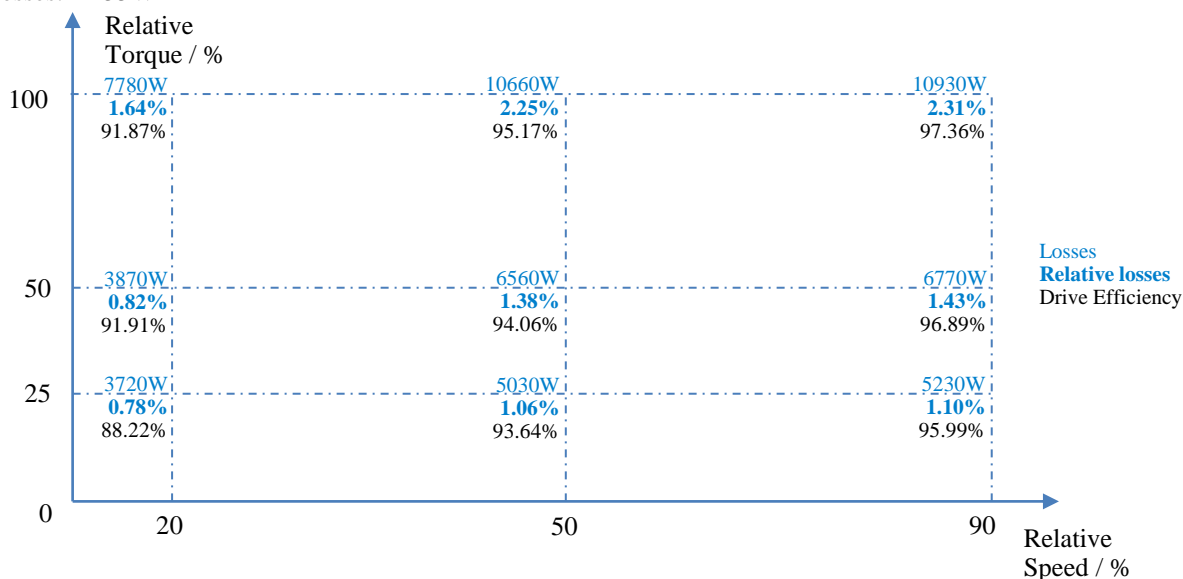
Series : GD270-400-4-L1(-C3)(-EU)
 GD270-400-4-L3(-C3)(-EU)
 Nominal voltage : AC 3PH 380V
 Nominal power :400kW

Nominal current :720A
 Nominal apparent power :474kVA
 Nominal frequency :50Hz

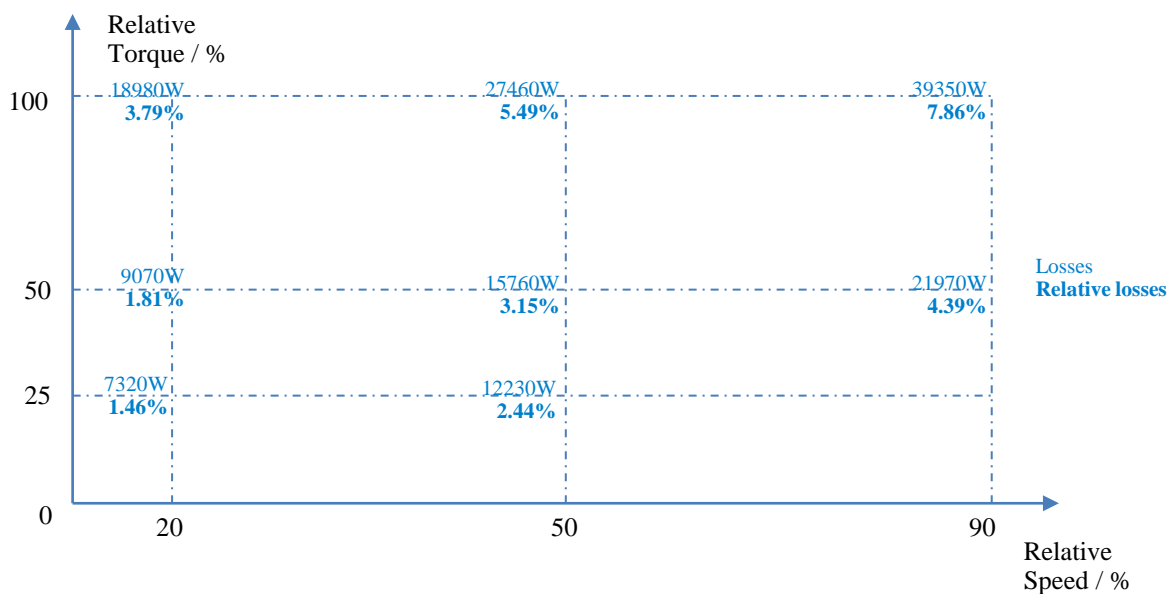


Efficiency data for the Drive

Standby losses: 55W



Efficiency data for the Drive + motor (standard IE2 reference motor)



Energy Efficiency Certificate

Drive efficiency according to IEC/EN 61800-9-2 (supersedes EN 50598-2)



Efficiency data for the Drive

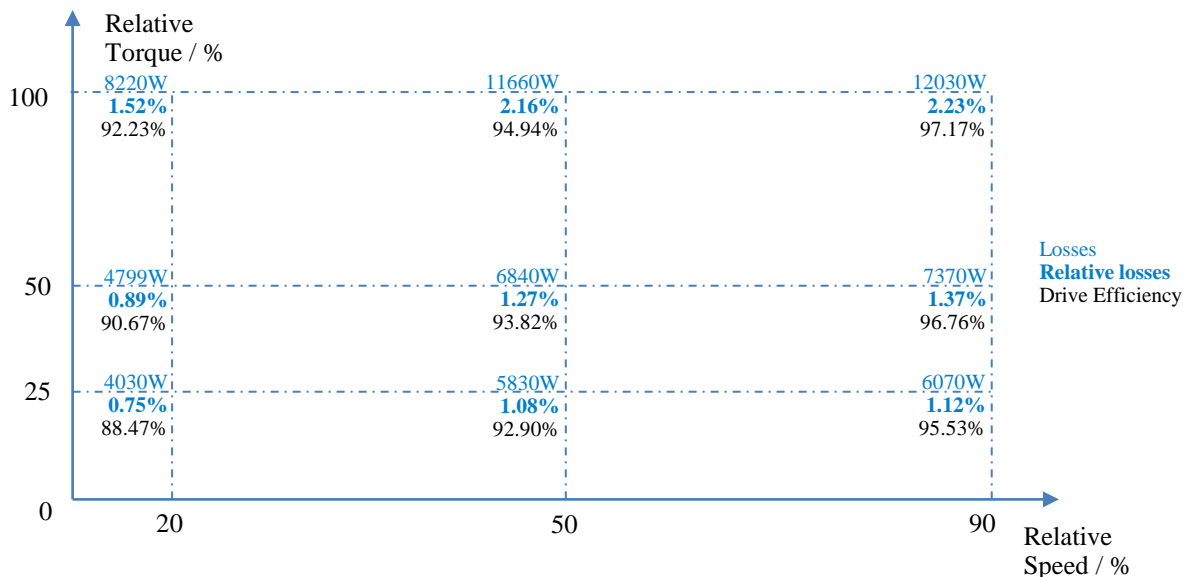
Series : GD270-450-4-L1(-C3)(-EU)
 GD270-450-4-L3(-C3)(-EU)
 Nominal voltage : AC 3PH 380V
 Nominal power :450kW

Nominal current :820A
 Nominal apparent power :540kVA
 Nominal frequency :50Hz

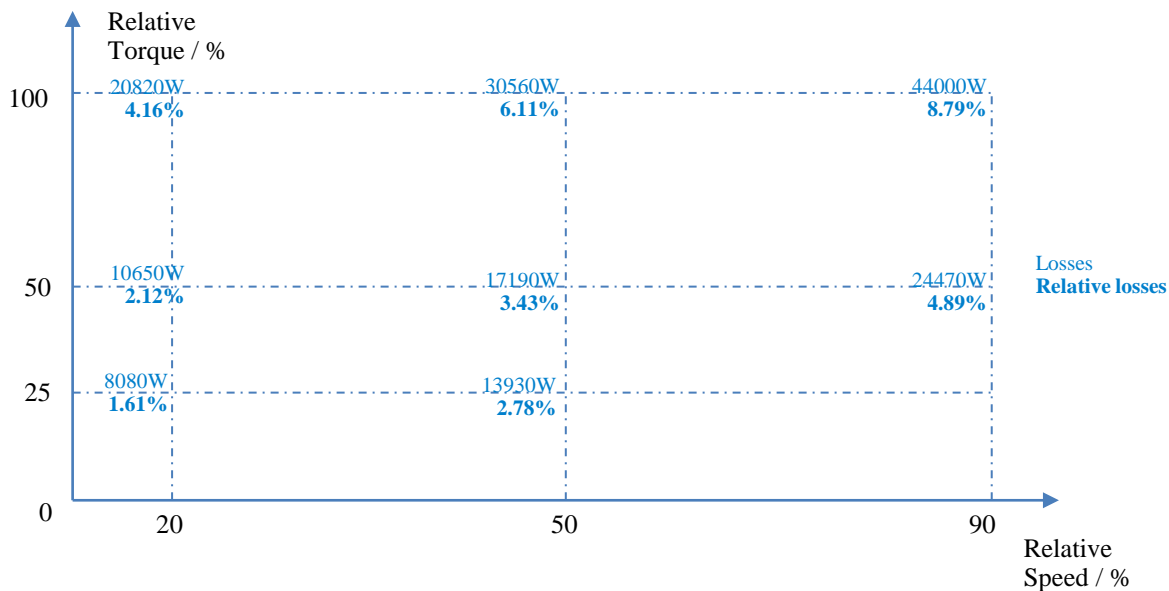


Efficiency data for the Drive

Standby losses: 55W



Efficiency data for the Drive + motor (standard IE2 reference motor)



Energy Efficiency Certificate

Drive efficiency according to IEC/EN 61800-9-2 (supersedes EN 50598-2)



Efficiency data for the Drive

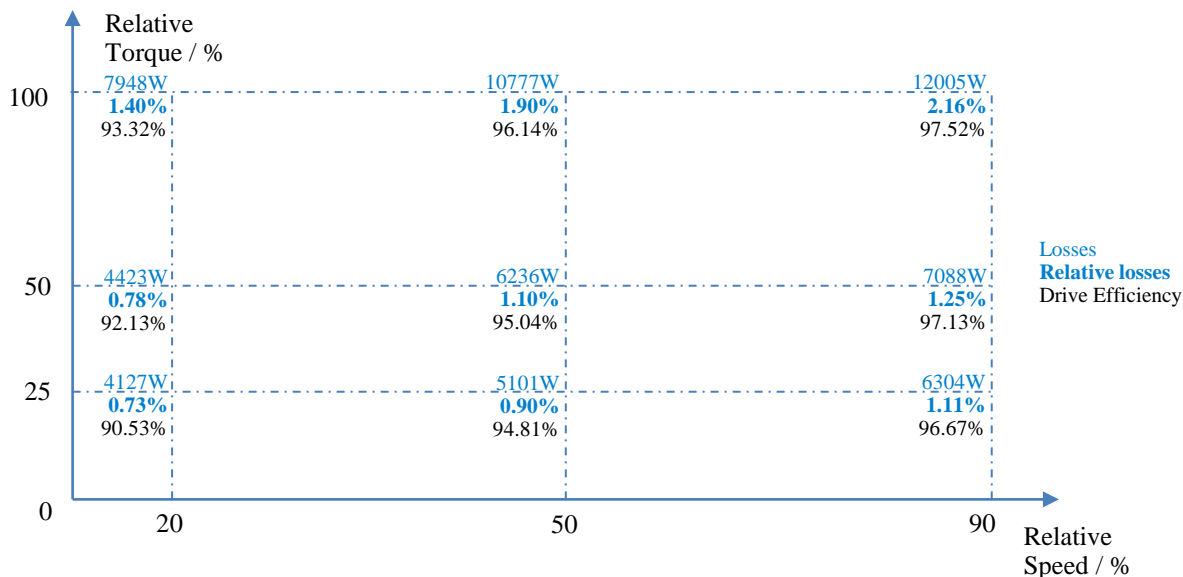
Series : GD270-500-4-L1(-C3)(-EU)
 GD270-500-4-L3(-C3)(-EU)
 Nominal voltage : AC 3PH 380V
 Nominal power :500kW

Nominal current :860A
 Nominal apparent power :566kVA
 Nominal frequency :50Hz



Efficiency data for the Drive

Standby losses: 55W



Efficiency data for the Drive + motor (standard IE2 reference motor)

