

April 14, 2005
 Commissioning Report and Results
 Belliss & Morcom #2
 400 hp 575v Reciprocating Compressor

The current settings are:

Soft start		
Ramp Up time	s	4
Ramp Down time	s	0
Pedestal voltage	% of the line voltage	40
Step Down voltage	% of the line voltage	100
Supply frequency	Hz	60
Current limit level & time	% of DOL starting current / s	30/0
Kick start level & time	% of the line voltage / s	100/0
Relay 1	Run relay	
Relay 2	Fault relay	
Relay 3	Fault relay	
Optimization		
Voltage limit	% of the line voltage	56*
Optimum efficiency	%	76*
Dead band (-)		0.003
Dead band (+)		0.003
Voltage ramp Up	ms	10
Voltage ramp Down	ms	20
Slip tolerance		7
Stall compensation		2
Dwell time	s	5

* Settings updated.

Actual savings:

Parameter	Off load				On load			
	Opt. off	Opt. on	Differ.	%	Opt. off	Opt. on	Differ.	%
Current, A	270	165	105	39	415	400	15	3.6
Active power, kW	43	36	7	16	288	281	7	2.4
Reactive power, kvar	280	165	115	41	322	310	12	3.7