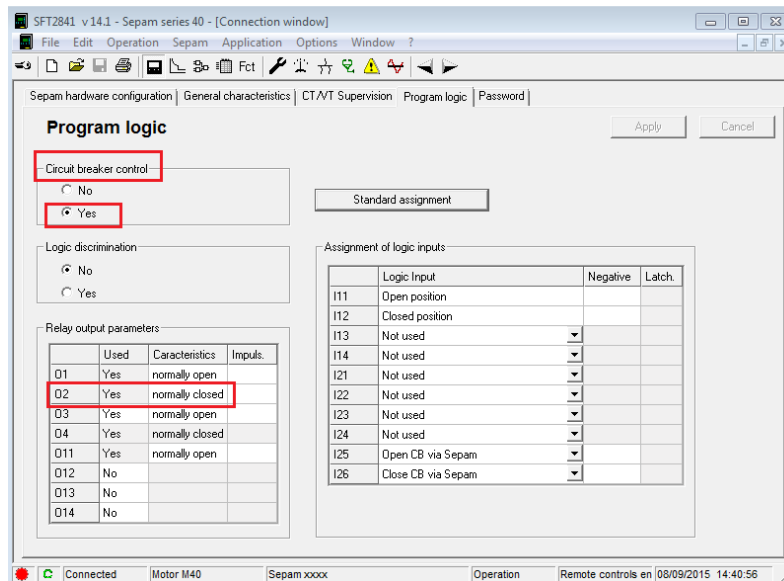


How alarm messages come up and how output change according to protection function “start per hour” (66) in Sepam Series 20 and 40?

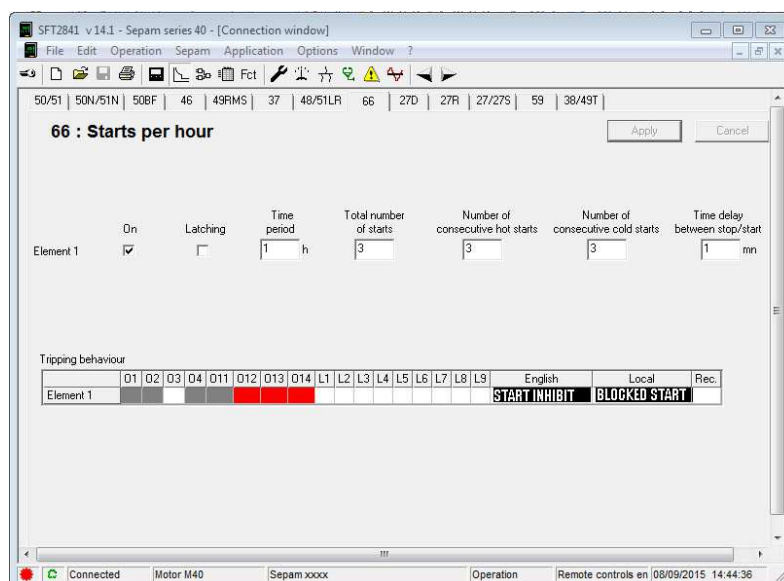
Function 66 is not tripping but will inhibit the close order. In Sepam series 20,40 while using CB control function then O2 is used for inhibit closing. We will use normally close O2 in series in closing logic circuit to control the circuit breaker. While 66 operate it will provoke O2 changing form close to open position and consequently closing orders will not work. We would say close orders are inhibited by function 66.



To explain better the issue let's take an example:

66 settings: Time period=1 h / Total number of start = 3 / Total number of consecutive hot starts = 3

Total number of consecutive cold starts =3 / Time delay between stop/start= 1mn

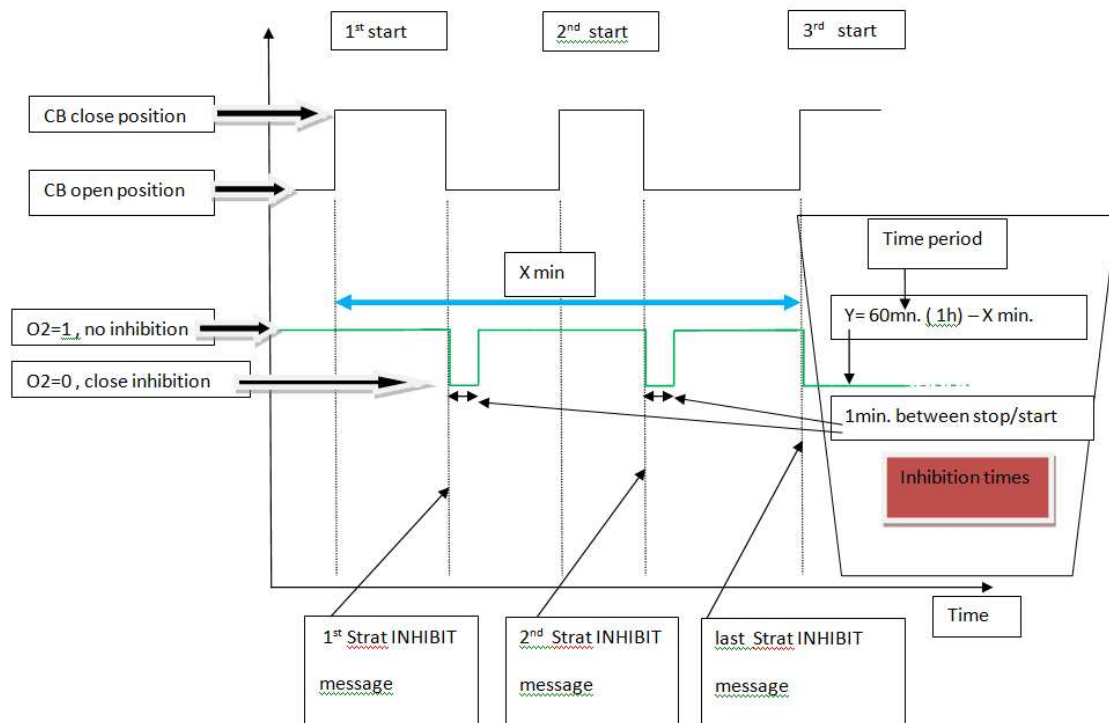


As it is clear in below diagram:

3 starts are available. (No matter if they are hot or cold, according to the setting.)

For 1<sup>st</sup> and 2<sup>nd</sup> start we would inhibit the closing order just for 1 minute after opening order of circuit breaker. So it is clear after falling edge of CB position pulse, O2 is changing and inhibit message will pop up.

For the last start, we would inhibit the closing order of circuit breaker by  $Y = 60mn - X \text{ min.}$  But O2 and messages will pop up just after closing order. So it is clear just after raising edge of CB poison pulse, O2 change and inhibit message will pop up.



So the important fact is that as we set total number of start equal to 3, then the last close order (3<sup>rd</sup> start) also is done successfully. But for 4<sup>th</sup> start we should wait till Y min pass. Just after that we can manage to start again.